

*Budget Accessories, Inc.
Hudson-Catskill*

BONNEY

TOOL CATALOG NUMBER 63

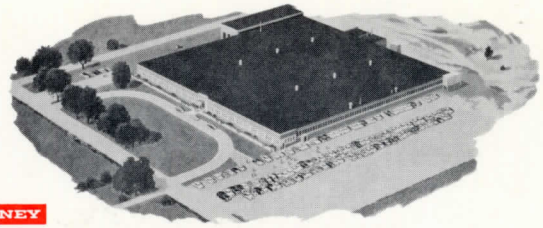
BONNEY

A member of a great precision metal-working family—completely integrated, by Miller Manufacturing Company, to maintain its position of unquestioned leadership in providing the highest quality, job-matched tools for the professional mechanic.

**BONNEY FORGE
& TOOL WORKS**

2400 N. Rockhill Rd.—Alliance, Ohio

A modern plant of 154,000 sq. ft. equipped with all of the up-to-date machines necessary to make the finest in tools. Automatic chrome plating machine. Both Miller special tools and Bonney tools are manufactured and shipped from this plant.

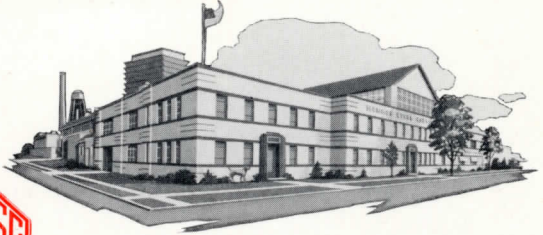


BONNEY

**MONROE STEEL
CASTINGS COMPANY**

917 W. Front St.—Monroe, Michigan

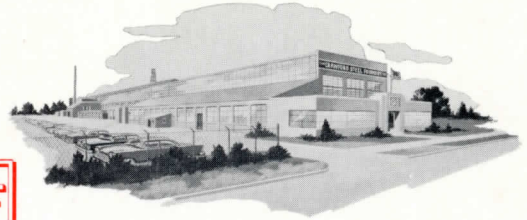
Comprises 77,000 sq. ft of floor space, containing electric melting furnace, mechanical handling equipment, shakers, sand mixers, annealing furnaces, etc.



**THE CRAWFORD
STEEL FOUNDRY COMPANY**

521 E. Southern Ave.
Bucyrus, Ohio

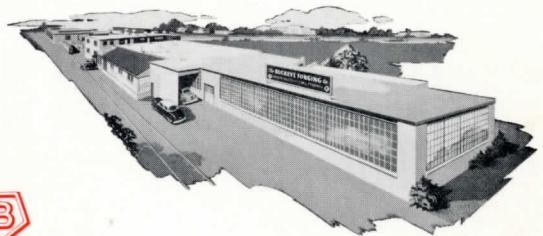
Electric furnace, metallurgical laboratories, pattern shop, shot blast cleaner, heat treating, normalizing furnaces are available at this recently rebuilt 80,000 sq. ft. facility.



**THE BUCKEYE
FORGING COMPANY**

9217 Miles Ave.—Cleveland 5, Ohio

This 80,000 sq. ft. plant is completely equipped with modern board and air hammers, coining presses, upsetters, machining and finishing equipment, to economically produce forgings.



**MILLER
MANUFACTURING CO.**

(Special Tool Sales Division)
17640 Grand River Ave.
Detroit 27, Mich.

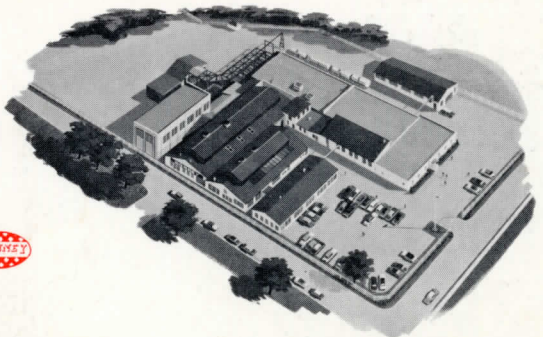
Miller's corporate headquarters are located in this air-conditioned building. Detroit sales offices are maintained here for Miller's out-of-town subsidiaries and its special tool sales division.



**BONNEY FORGE
& TOOL WORKS**

Meadow & Cedar Sts.
Allentown, Pa.

This modernized plant of 70,000 sq. ft. is equipped with a wide variety of hammers, trimming presses, heat treat, cleaning and machining facilities required for volume production of quality forgings, and forged steel fittings.



BONNEY TOOLS

1876 - 1963

MODERN MANUFACTURING FACILITIES

Today, at the all-new Bonney plant in Alliance, Ohio, the heritage and experience of 87 years in the design and manufacture of tools is blended with the most modern engineering and production equipment to produce the finest quality tools—for those who know and want the best.



Bonney tools are guaranteed to perform the work for which designed and to last as long as is consistent with ordinary wear. Any tool found defective in workmanship or material when returned to the factory, transportation charges prepaid, will be repaired, replaced, or credit given at our option. *Note:* Items which, because of their nature, cannot be guaranteed are indicated by the symbol (★).

This guarantee is void if inspection shows:

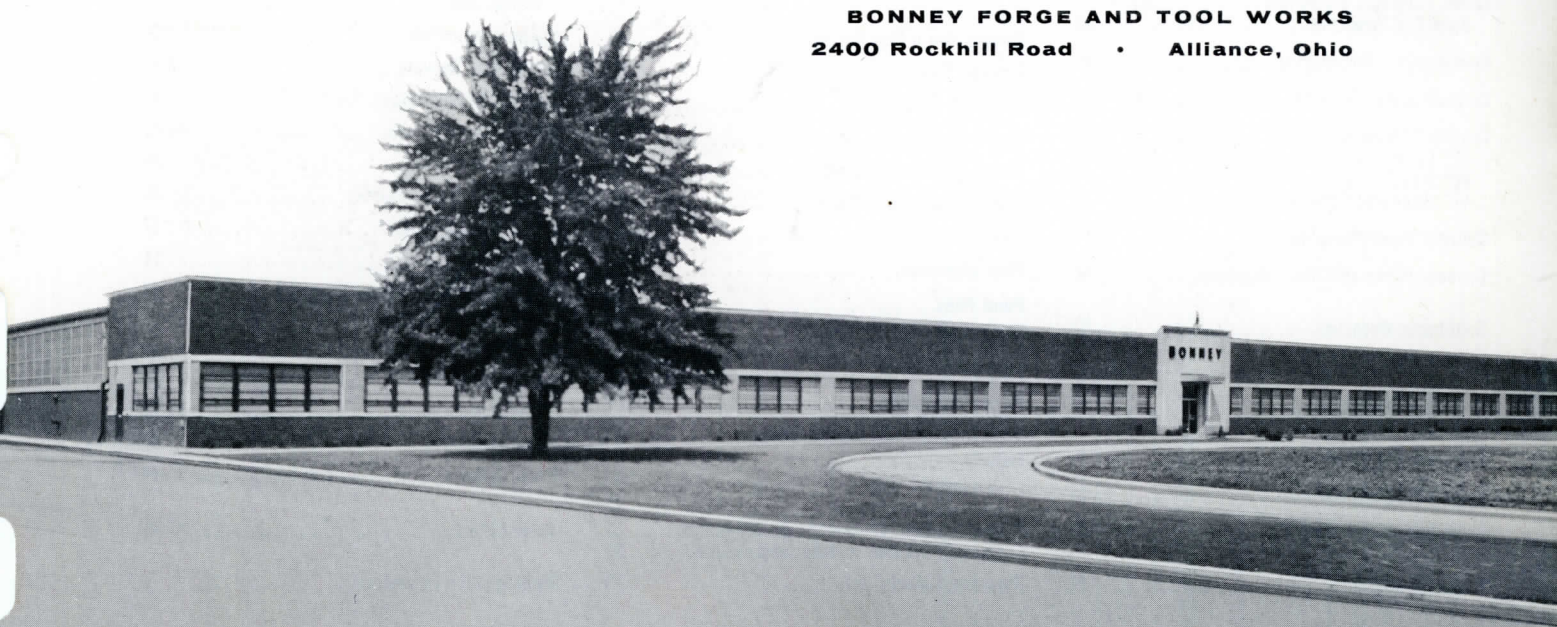
- The tools have been abused, ground, heated, subjected to hammering, or unreasonable leverage.
- Hand sockets and attachments used on power and impact guns.

SPECIAL TOOLS

Bonney specializes in the design and manufacture or manufacture to customer specification of Special tools for any purpose and for every application.

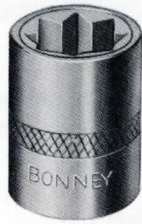
For information on any Special problem, write or call Bonney Contract Sales.

BONNEY FORGE AND TOOL WORKS
2400 Rockhill Road • Alliance, Ohio



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8-POINT REGULAR



12-POINT REGULAR



6-POINT DEEP



12-POINT DEEP

1/4 INCH SQUARE DRIVE "V" SERIES SOCKETS
Accurate Sure-Grip Fit... Precision Machined

Wherever small, lightweight tools are needed Bonney 1/4 inch square drive sockets, handles, and attachments work best. Straight, thin walled, accurately hot broached sockets combined with well-balanced, properly proportioned handles and

attachments provide the ultimate in small tools — made from finest alloy steels, scientifically heat treated and tempered to meet the highest standards for dependable service — bright, nickel chrome, polished finish.

8-POINT—REGULAR LENGTH

Number	Opening	O.A. Length	O.D. Socket End	Weight Lbs.
VS8	1/4	7/8	29/64	.028
VS10	5/16	7/8	9/16	.038
VS12	3/8	7/8	21/32	.055

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 1—1/4" Drive.

6-POINT—DEEP

Number	Opening	O.A. Length	O.D. Socket End	Weight Lbs.
VLH6	3/16	2	19/64	.031
VLH8	1/4	2	3/8	.031
VLH10	5/16	2	29/64	.062
VLH12	3/8	2	17/32	.062
VLH14	7/16	2	5/8	.093
VLH16	1/2	2	11/16	.124

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 2—1/4" Drive.

12-POINT—REGULAR LENGTH

Number	Opening	O.A. Length	O.D. Socket End	Weight Lbs.
V6	3/16	7/8	19/64	.022
V7	7/32	7/8	11/32	.025
V8	1/4	7/8	3/8	.025
V9	9/32	7/8	13/32	.025
V10	5/16	7/8	29/64	.025
V11	11/32	7/8	1/2	.028
V12	3/8	7/8	17/32	.028
V14	7/16	7/8	9/8	.047
V16	1/2	7/8	11/16	.050

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 1—1/4" Drive.

12-POINT—DEEP

Number	Opening	O.A. Length	O.D. Socket End	Weight Lbs.
VL6	3/16	2	19/64	.034
VL7	7/32	2	11/32	.038
VL8	1/4	2	3/8	.041
VL9	9/32	2	27/64	.044
VL10	5/16	2	29/64	.050
VL11	11/32	2	1/2	.059
VL12	3/8	2	17/32	.066
VL14	7/16	2	5/8	.094
VL16	1/2	2	11/16	.109

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 2—1/4" Drive.

BONNEY CROWFOOT ATTACHMENTS

CROWFOOT—1/4 INCH DRIVE BOX TYPE

Bonney Crowfoot Attachments have unlimited uses:

- Aircraft fittings
- Excellent for tubing fittings
- Attachments for torque wrenches
- Designed for the unusual request
- Complete range of sizes
- Special orders on request

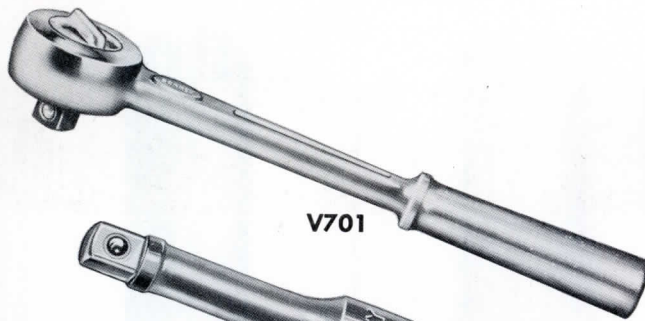


Bonney Crowfoot wrenches are indispensable to torque wrench adjustments in obtaining specified torque. Designed specifically to perform unusual applications, sturdy construction for better service.

Number	Opening	Diameter Head	Head Thkns.	Slotted Opening	Wt. Lbs.
★VF6	3/16	3/8	1/4	1/8	.093
★VF7	7/32	3/8	1/4	5/32	.062
★VF8	1/4	1/2	1/4	3/16	.109
★VF9	9/32	1/2	1/4	7/32	.100
★VF10	5/16	1/2	1/4	1/4	.096
★VF11	11/32	1/2	1/4	9/32	.093
★VF12	3/8	9/16	17/32	9/32	.025
★VF14	7/16	21/32	19/32	11/32	.028
★VF16	1/2	3/4	19/32	3/8	.047
★VF18	9/16	13/16	19/32	7/16	.044

Ref.: Fed. Spec. GGG-W-641B—Type 2—Class 1.

1/4 INCH SQUARE DRIVE Handles and Attachments



V701



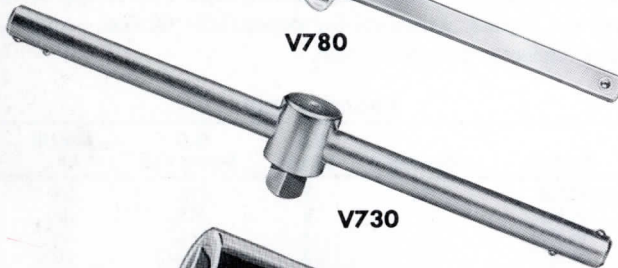
V602-V606



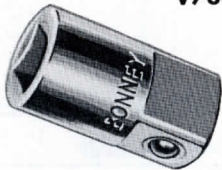
V720



V780



V730



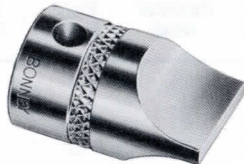
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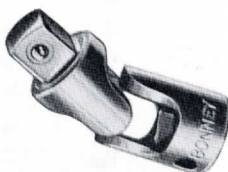
V36



V775



V785



V760

V701 RATCHET

The 1/4 Inch Drive Bonney Ratchet is made of the finest select alloy steel to exacting specifications to give long and dependable service.

V701—Length: 5 inches. Weight: .187 lbs.

Fed. Spec.: GGG-W-641B, Type 6, Class 1.

V602-V606 EXTENSIONS

These Bonney Extensions enable the mechanic to reach into hard to get at places where socket action is desired. Made of the finest alloy steel with polished heads finished in nickel chrome.

V602—Length: 2 inches. Weight: .050 lbs.

V606—Length: 6 inches. Weight: .122 lbs.

Fed. Spec.: GGG-W-641B, Type 13, Class 1.

V720 HINGE HANDLE

The V720 Bonney Hinge Handle is designed to allow working angles where it is necessary to by-pass obstructions.

V720—Length: 5 3/4 inches. Weight: .203 lbs.

Fed. Spec.: GGG-W-641B, Type 5.

V780 SPINNER HANDLE

V780—Length: 6 inches. Weight: .118 lbs.

Fed. Spec.: GGG-W-641B, Type 7, Class 3.

V730 SLIDING "T" HANDLE

Sliding head spring loaded to hold any position on the slide bar. Length: 4 inches. Weight: .084 lbs.

Fed. Spec.: GGG-W-641B, Type 8, Class 1.

4217 ADAPTER

This adapter makes it possible to use 3/8 inch drive sockets.

4217—Female Drive 1/4 inch—Male Drive 3/8 inch.

Weight: .034 lbs.

Fed. Spec.: GGG-W-641B, Type 2, Class 1.

V36 DISTRIBUTORS SCREW DRIVER AND BEZEL NUT SOCKET

The V36 Attachment designed for Chevrolet Distributor and Ford Dashboard Bezels.

★V36—Length: 1 3/8 inches. Weight: .038 lbs.

V775 CROSS BAR

Used with Hinge Handle to form "T" Handle.

V775—Length: 3 1/2 inches. Weight: .025 lbs.

V785 SCREW DRIVER SOCKET

★V785—Length: 1 inch. Width of bit: 5/16 inch. Thickness: 3/64 inch. Weight: .031 lbs.

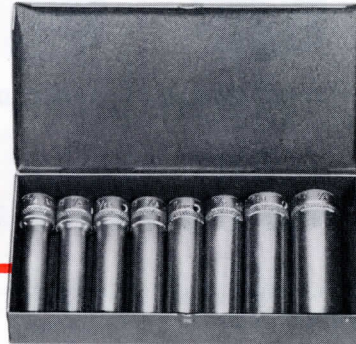
V760 UNIVERSAL JOINT

V760—Length: 1 1/4 inch. Weight: .031 lbs.

**1/4 INCH SQUARE DRIVE
Tool Sets**



V55B-V57B



V56B

Listed below are popular 1/4 inch drive tool assortments covering basic sets through those required for a larger range of 1/4 inch drive attachments.

SET NO. V51B (18 Pieces — 1.050 lbs.)

Number	Description
V6	3/16" 12-Pt. Socket
V7	7/32"
V8	1/4"
V9	9/32"
V10	5/16"
V11	11/32"
V12	3/8"
V14	7/16"
VS8	1/4" 8-Pt. Socket

Number	Description
VS10	5/16" 8-Pt. Socket
VS12	3/8"
V780	Spin Handle
V730	T Handle
V720	Hinge Handle
V775	Cross Handle
V602	2" Extension
V606	6" Extension
MB12	Metal Box, 6" x 4" x 1"

SET NO. V55B (15 Pieces — 1.500 lbs.)

Number	Description
V6	3/16" 12-Pt. Socket
V7	7/32"
V8	1/4"
V9	9/32"
V10	5/16"
V11	11/32"
V12	3/8"
V14	7/16"

Number	Description
V16	1/2" 12-Pt. Socket
VS8	1/4" 8-Pt. Socket
VS10	5/16"
V780	Spin Handle
V730	T Handle
V701	Reversible Ratchet
MB22	Metal Box, 6 1/2" x 2 5/8" x 1 1/16"



V51B-V58B

SET NO. V56B (9 Pieces — .531 lbs.)

Number	Description
VL6	3/16" 12-Pt. Deep Socket
VL8	1/4"
VL9	9/32"
VL10	5/16"
VL11	11/32"

Number	Description
VL12	3/8" 12-Pt. Deep Socket
VL14	7/16"
VL16	1/2"
MB8	Metal Box, 4 1/2" x 2" x 3/4"

SET NO. V57B (13 Pieces — 1.000 lbs.)

Number	Description
V6	3/16" 12-Pt. Socket
V7	7/32"
V8	1/4"
V9	9/32"
V10	5/16"
V11	11/32"
V12	3/8"

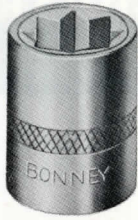
Number	Description
V14	7/16" 12-Pt. Socket
V16	1/2"
VS8	1/4" 8-Pt. Socket
VS10	5/16"
V780	Spin Handle
MB22	Metal Box, 6 1/2" x 2 5/8" x 1 1/16"

**SET NO. V58B
(17 Pieces — 1.001 lbs.)**

Number	Description
V6	3/16" 12-Pt. Socket
V7	7/32"
V8	1/4"
V9	9/32"
V10	5/16"
V11	11/32"
V12	3/8"
V14	7/16"
V16	1/2"
VS8	1/4" 8-Pt. Socket
VS10	5/16"
V780	Spin Handle
V730	T Handle
V602	2" Extension
V606	6" Extension
V701	Reversible Ratchet
MB12	Metal Box, 6" x 4" x 1"



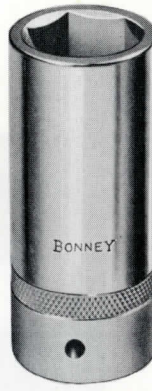
6-POINT REGULAR



8-POINT REGULAR



12-POINT REGULAR



6-POINT DEEP



12-POINT DEEP



12-POINT FLEXIBLE

3/8 INCH SQUARE DRIVE "T" SERIES SOCKETS Made from the Finest Alloy Steel

Bonney 3/8 inch square drive "T" Series sockets, handles, and attachments provide maximum strength and utility in combination with compact size and lightweight.

Made from finest quality, high alloy steel to exacting specifications — assures close fit in a wide range of sizes to meet every application.

6-POINT—REGULAR LENGTH

Number	Opening	O.A. Length	O.D. Socket End	Weight Lbs.
TH8	1/4	1	25/64	.044
TH10	15/16	1	15/32	.038
TH12	3/8	1	35/64	.069
TH14	7/16	1	5/8	.044
TH16	1/2	1	11/16	.050
TH18	9/16	1	25/32	.069
TH20	5/8	1	27/32	.084
TH22	11/16	1	59/64	.103
TH24	3/4	1 1/32	1	.109
TH26	13/16	1 1/32	1 1/16	.125
TH28	7/8	1 9/32	1 5/32	.150
TH30	15/16	1 9/16	1 1/4	.281
TH32	1	1 5/8	1 11/32	.343

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 1—3/8" Drive.

8-POINT—REGULAR LENGTH

Number	Opening	O.A. Length	O.D. Socket End	Weight Lbs.
TS12	3/8	1	11/16	.062
TS14	7/16	1	25/32	.078
TS16	1/2	1	27/32	.103
TS18	9/16	1 1/32	1	.141
TS20	5/8	1 1/32	1 1/16	.159

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 1—3/8" Drive.

12-POINT—REGULAR LENGTH

Number	Opening	O.A. Length	O.D. Socket End	Weight Lbs.
T10	5/16	1	15/32	.038
T12	3/8	1	35/64	.069
T14	7/16	1	5/8	.044
T16	1/2	1	11/16	.050
T18	9/16	1	25/32	.069
T20	5/8	1	27/32	.084
T22	11/16	1	59/64	.103
T24	3/4	1 1/32	1	.109
T26	13/16	1 1/32	1 1/16	.125
T28	7/8	1 9/32	1 5/32	.150
T30	15/16	1 9/16	1 1/4	.281
T32	1	1 5/8	1 11/32	.343

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 1—3/8" Drive.

6-POINT—DEEP

New Number	Old Number	Opening	O.A. Length	O.D. Socket End	Weight Lbs.
TLH12	T120	3/8	1 3/4	35/64	.063
TLH14	T140	7/16	2	5/8	.078
TLH16	T160	1/2	2	11/16	.097
TLH18	T180	9/16	2	25/32	.134
TLH20	T200	5/8	2 1/4	27/32	.192
TLH22	T220	11/16	2 1/2	59/64	.222
TLH24	T240	3/4	2 1/2	1	.263
TLH26	T260	13/16	2 1/2	1 1/16	.269
TLH28	T280	7/8	2 1/2	1 5/32	.347

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 2—3/8" Drive.

12-POINT—DEEP

Number	Opening	O.A. Length	O.D. Socket End	Weight Lbs.	
TL12	LT12	3/8	1 3/4	35/64	.063
TL14	LT14	7/16	2	5/8	.078
TL16	LT16	1/2	2	11/16	.097
TL18	LT18	9/16	2	25/32	.134
TL20	LT20	5/8	2 1/4	27/32	.192
TL22	LT22	11/16	2 1/2	59/64	.222
TL24	LT24	3/4	2 1/2	1	.263
TL26	LT26	13/16	2 1/2	1 1/16	.269
TL28	LT28	7/8	2 1/2	1 5/32	.347

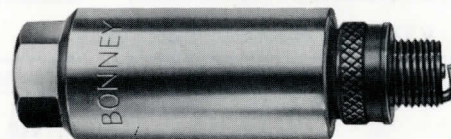
Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 2—3/8" Drive.

12-POINT—FLEXIBLE

Number	Opening	O.A. Length	O.D. Socket End	Weight Lbs.
TU12	3/8	1 23/32	17/32	.094
TU14	7/16	1 23/32	39/64	.100
TU16	1/2	1 23/32	11/16	.094
TU18	9/16	1 3/4	25/32	.100
TU20	5/8	1 3/4	27/32	.103
TU22	11/16	1 7/8	59/64	.105
TU24	3/4	1 15/16	1	.105

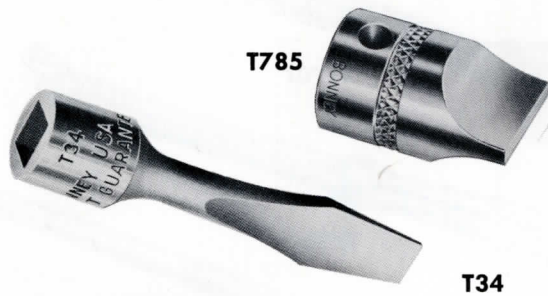
Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 3.

SPARK PLUG SOCKET WITH SPARK PLUG RETAINER



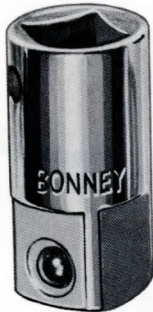
Number	Opening	O.A. Length	O.D. Socket End	Weight Lbs.
TLH26R	13/16	2 1/2	1 1/16	1.281

**3/8 INCH SQUARE DRIVE
Socket Screw Driver
Crowfoot Attachments**

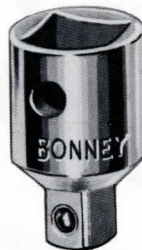


T785

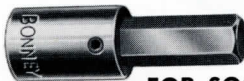
T34



4215



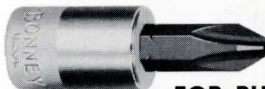
4216



**TW4 . . . TW12
FOR SOCKET HEAD SCREWS**



**TCL3 . . . TCL7
FOR CLUTCH HEAD SCREWS**



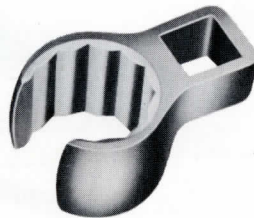
**TP1 . . . TP4
FOR PHILLIPS HEAD SCREWS**



**TPC
SOCKET ONLY**



**TC12 - TC28
MTC14**



TF20 - TF34

The 3/8 inch drive crowfoot attachments are invaluable for tube fittings and as torque wrench attachments. The open end designed for applications where obstructions prevent the use of standard wrenches. The box type with slotted opening for use on tube fittings and other connections where space is limited.

T34 SCREW DRIVER

★T34—Length: 3 1/4 inches. Blade: 3/8 inch Wide x .037 inch Thick. Weight: .119 lbs.

Fed. Spec.: GGG-W-641B, Type 14, Class 1, Form D.

T785 (OLD NO. T27) DRAG LINK SOCKET

★T785—Length: 1 3/32 inches. Blade: 11/16 inch Wide x .116 inch Thick. Weight: .063 lbs.

Fed. Spec.: GGG-W-641B, Type 14, Class 1, Form A.

4215-4216 ADAPTERS

★4215—Female Drive 3/8 inch, Male Drive 1/2 inch. Weight: .084 lbs.

4216—Female Drive 3/8 inch, Male Drive 1/4 inch. Weight: .031 lbs.

**HEX HEAD SCREW DRIVERS
REPLACEABLE BITS**

Number	Bit Size	O.A. Length	Bit Length	O.D. Socket End	Weight Lbs.
★TW4	1/8	2	1	1/2	.038
★TW5	5/32	2	1	1/2	.038
★TW6	3/16	2	1	1/2	.062
★TW7	7/32	2	1	1/2	.066
★TW8	1/4	2 1/32	1 1/32	1 1/16	.088
★TW10	5/16	2	1	1 1/16	.097
★TW12	3/8	2	1	1 1/16	.106

Ref.: Fed. Spec. GGG-W-641B, Type 15 Holder.

**CLUTCH HEAD SCREW DRIVERS
TYPE "G" Butterfly design**

★TCL3	5/32	2 1/16	1 1/16	1 1/16	.084
★TCL5	1/4	2 1/16	1 1/16	1 1/16	.084
★TCL7	5/16	2 3/16	1 3/16	1 1/16	.091

Ref.: Fed. Spec. GGG-W-641B, Type 14, Class 2, Form C Bit, Type 15 Holder.

PHILLIPS SCREW DRIVERS

★TP1	#1	1 15/16	1 5/16	1 1/16	.087
★TP2	#2	1 15/16	1 5/16	1 1/16	.084
★TP3	#3	1 15/16	1 5/16	1 1/16	.087
★TP4	#4	1 15/16	1 5/16	1 1/16	.087
★TPC	—	—	—	Socket Only	.062

Ref.: Fed. Spec. GGG-W-641B, Type 14, Class 2, Form A Bit, Type 15 Holder.

*See price sheet for replacement bits

CROWFOOT ATTACHMENTS — OPEN END

Number	Opening	Diameter Head	Thkns. Head	Weight Lbs.
★TC12	3/8	1 1/16	3/8	.125
★TC14	7/16	7/8	3/8	.141
★TC16	1/2	7/8	3/8	.134
★TC18	9/16	1 1/8	3/8	.144
★TC20	5/8	1 1/8	3/8	.138
★TC22	1 1/16	1 1/16	1/2	.215
★TC24	3/4	1 1/16	1/2	.200
★TC26	13/16	1 21/32	1/2	.247
★TC28	7/8	1 21/32	1/2	.241
*★MTC14	14MM	1 1/8	3/8	.187

*Mercedes Benz Valve Adjustments.

CROWFOOT ATTACHMENTS — BOX TYPE

Number	Opening	Diameter Head	Thkns. Head	Slotted Opening	Weight Lbs.
★TF20	5/8	2 9/32	3/4	1 5/32	.081
★TF22	1 1/16	1	3/4	1 7/32	.078
★TF24	3/4	1 3/32	2 9/32	9/16	.073
★TF26	13/16	1 11/64	2 5/32	5/8	.108
★TF28	7/8	1 17/64	1 3/16	1 1/16	.125
★TF30	1 5/16	1 11/32	1 3/16	2 3/32	.131
★TF32	1	1 27/64	2 7/32	3/4	.133
★TF34	1 1/16	1 1/2	2 7/32	2 5/32	.141

Ref.: Fed. Spec. GGG-W-641B, Type 2, Class 1.

**3/8 INCH SQUARE DRIVE
Handles and Attachments**

TT707 RATCHET

The new Bonney 48 tooth wedge action reversible ratchet gives a new principle to ratcheting. The harder you pull, the tighter the ratchet holds. Positive power with simplified construction for long, dependable life.

TT707—3/8 inch Ratchet—Length: 7 1/2 inches. Weight: .562 lbs.

TT707R Ratchet Repair Kit consisting of one each: pawl, spring, core, and ring.

T720 HINGE HANDLE

T720—Length: 7 5/8 inches. Weight: .397 lbs.
Fed. Spec.: GGG-W-641B, Type 5.

T775 CROSS BAR

T775—Length: 6 inches. Weight: .128 lbs.

T742-T749 SPEEDER HANDLES

T742—Length: 17 inches. Weight: 1.095 lbs.
T748—Length: 24 inches. Weight: 1.562 lbs.
T749—Length: 36 inches. Weight: 2.031 lbs.
Fed. Spec.: GGG-W-641B, Type 8, Class 1.

T601 - T617 EXTENSIONS

T601—Length: 1 inch. Weight: .062 lbs.
T603—Length: 3 inches. Weight: .147 lbs.
T606—Length: 6 inches. Weight: .262 lbs.
T608—Length: 8 inches. Weight: .375 lbs.
T612—Length: 12 inches. Weight: .500 lbs.
T617—Length: 17 1/2 inches. Weight: .750 lbs.
Fed. Spec.: GGG-W-641B, Type 13, Class 1.

T760 UNIVERSAL JOINT

T760—Length: 1 7/8 inches. Weight: .106 lbs.
Fed. Spec.: GGG-W-641B, Type 12.

T730 SLIDING "T" HANDLE

T730—Length: 8 inches. Weight: .422 lbs.
Fed. Spec.: GGG-W-641B, Type 8, Class 1.

T780 SPINNER HANDLE

T780—Length: 5 1/8 inches. Weight: .188 lbs.
Fed. Spec.: GGG-W-641B, Type 7, Class 3.

AT4 - AT31 WOBBLE DRIVE EXTENSIONS

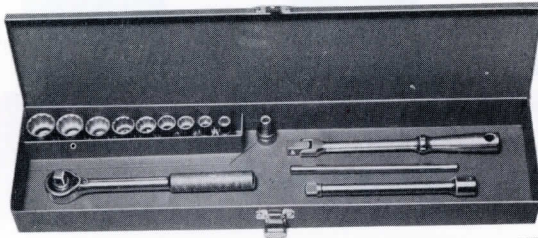
A Bonney Exclusive—Makes possible angular drive with rigid extension.

- ★AT5—Length: 12 inches. Weight: .400 lbs.
- ★AT4—Length: 6 inches. Weight: .212 lbs.
- ★AT31—Length: 3 inches. Weight: .128 lbs.

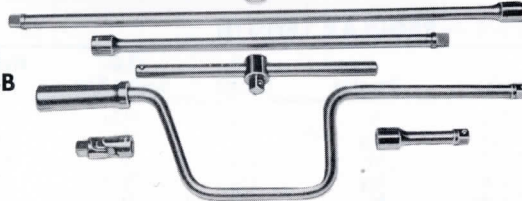


3/8 INCH SQUARE DRIVE Tool Sets

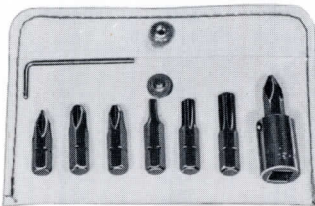
Listed below are popular 3/8 inch drive tool assortments; sets from basic to those having a wide range of attachments.



**T54B
TD14B**



T55B



TB3R



TWB

SET NO. T56B (8 Pieces—1.216 lbs.)

No.	Description	No.	Description
TU12	3/8" 12-Pt. Universal Socket	TU20	5/8" 12-Pt. Universal Socket
TU14	7/16"	TU22	11/16"
TU16	1/2"	TU24	3/4"
TU18	9/16"	MB22-1	Metal Box, 2 1/2" x 6 1/2" x 1"

SET NO. TB3R (9 Piece Phillips and Clutch Head Set in Leatherette Roll No. LR5—.375 lbs.)

No.	Bit Size	No.	Bit Size
TP1	#1	TCL5	1/4"
TP2	#2	TCL7	5/16"
TP3	#3	TPC	Bit Socket
TP4	#4	AW2 1/2	Hex Key
TCL3	5/32"		

SET NO. TWB (9 Piece Socket Hex Key Set—.845 lbs.)

No.	Hex Size	No.	Hex Size
TW4	1/8"	TW10	5/16"
TW5	5/32"	TW12	3/8"
TW6	3/16"	AW2 1/2	Hex Key
TW7	7/32"	MB8	Metal Box, 4 1/2" x 2" x 3/4"
TW8	1/4"		

SET NO. T50B (12 Pieces—2.936 lbs.)

No.	Description	No.	Description
T18	9/16" 12-Pt. Socket	TH16	1/2" 6-Pt. Socket
T20	5/8"	T720	Hinge Handle
T22	11/16"	T775	Cross Bar
T24	3/4"	T603	3" Extension
TH12	3/8" 6-Pt. Socket	TT707	Reversible Ratchet
TH14	7/16"	MB30	Metal Box, 8 3/4" x 3 3/4" x 1 1/2"

SET NO. T51B (12 Pieces—2.812 lbs.)

No.	Description	No.	Description
T18	9/16" 12-Pt. Socket	TH16	1/2" 6-Pt. Socket
T20	5/8"	T730	T Handle
T22	11/16"	T603	3" Extension
T24	3/4"	T606	6" Extension
TH12	3/8" 6-Pt. Socket	TT707	Reversible Ratchet
TH14	7/16"	MB30	Metal Box, 8 3/4" x 3 3/4" x 1 1/2"

SET NO. T52B (11 Pieces—2.343 lbs.)

No.	Description	No.	Description
T18	9/16" 12-Pt. Socket	TH16	1/2" 6-Pt. Socket
T20	5/8"	T720	Hinge Handle
T22	11/16"	T775	Cross Bar
T24	3/4"	T603	3" Extension
TH12	3/8" 6-Pt. Socket	MB30	Metal Box, 8 3/4" x 3 3/4" x 1 1/2"
TH14	7/16"		

SET NO. T53B (10 Pieces—2.187 lbs.)

No.	Description	No.	Description
T18	9/16" 12-Pt. Socket	TH14	7/16" 6-Pt. Socket
T20	5/8"	TH16	1/2"
T22	11/16"	T603	3" Extension
T24	3/4"	TT707	Reversible Ratchet
TH12	3/8" 6-Pt. Socket	MB30	Metal Box, 8 3/4" x 3 3/4" x 1 1/2"

SET NO. T54B (17 Pieces—5.063 lbs.)

No.	Description	No.	Description
T18	9/16" 12-Pt. Socket	TH16	1/2" 6-Pt. Socket
T20	5/8"	T720	Hinge Handle
T22	11/16"	T775	Cross Bar
T24	3/4"	T603	3" Extension
T26	13/16"	T606	6" Extension
TH8	1/4" 6-Pt. Socket	T742	17" Speeder Handle
TH10	5/16"	TT707	Reversible Ratchet
TH12	3/8"	MB44	Metal Box, 18" x 4" x 2"
TH14	7/16"		

SET NO. T55B (22 Pieces—5.125 lbs.)

No.	Description	No.	Description
T12	3/8" 12-Pt. Socket	TL20	9/8" 12-Pt. Deep Socket
T14	7/16"	TL22	11/16"
T16	1/2"	TL24	3/4"
T18	9/16"	TL26	13/16"
T20	5/8"	T720	Hinge Handle
T22	11/16"	T775	Cross Bar
T24	3/4"	T603	3" Extension
TL12	3/8" 12-Pt. Deep Socket	T606	6" Extension
TL14	7/16"	T760	Universal Joint
TL16	1/2"	TT707	Reversible Ratchet
TL18	9/16"	MB34	Metal Box, 14 3/4" x 1 1/2" x 3"

SET NO. TD14B (20 Pieces—7.625 lbs.)

No.	Description	No.	Description
T14	7/16" 12-Pt. Socket	T730	T Handle
T16	1/2"	T720	Hinge Handle
T18	9/16"	T775	Cross Bar
T20	5/8"	T606	6" Extension
T22	11/16"	T612	12" Extension
T24	3/4"	T617	17" Extension
T26	13/16"	T742	17" Speeder Handle
TH8	1/4" 6-Pt. Socket	T760	Universal Joint
TH10	5/16"	TT707	Reversible Ratchet
TH12	3/8"	MB44	Metal Box, 18" x 4" x 2"



6-POINT REGULAR



8-POINT REGULAR



12-POINT REGULAR



12-POINT DEEP



6-POINT DEEP

1/2 INCH SQUARE DRIVE "A" SERIES SOCKETS Scientifically Hardened and Tempered

Through continuous research and engineering, Bonney 1/2 inch square drive sockets, handles, and attachments are lighter, stronger, and more efficient to use.

A complete range of size openings in 6, 8 and 12 point sockets, both regular and deep, with positive lock "ball check" feature is available with matched handles and attachments for every job.

Made from carefully selected, finest alloy steel, precision machined, scientifically hardened and tempered for long, dependable service.

6-POINT — REGULAR LENGTH

Number	Opening	O.A. Length	O.D. Socket End	Weight Lbs.
AH12	3/8	1 1/2	9/16	.106
AH14	7/16	1 1/2	41/64	.113
AH16	1/2	1 1/2	47/64	.122
AH18	9/16	1 1/2	13/16	.119
AH20	5/8	1 1/2	7/8	.125
AH22	11/16	1 1/2	31/32	.163
AH24	3/4	1 1/2	11/32	.181
AH26	13/16	1 1/2	11/8	.225
AH28	7/8	1 1/2	13/16	.244
AH30	15/16	1 1/2	11/4	.275
AH32	1	1 1/2	111/32	.300
AH34	1 1/16	1 3/4	17/16	.388
AH36	1 1/8	1 3/4	1 1/2	.397
AH38	1 3/16	1 3/4	1 5/8	.438
AH40	1 1/4	1 3/4	1 11/16	.466

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 1—1/2" Drive.

12-POINT — REGULAR LENGTH

Number	Opening	O.A. Length	O.D. Socket End	Weight Lbs.
A12	3/8	1 1/2	9/16	.106
A14	7/16	1 1/2	41/64	.113
A16	1/2	1 1/2	47/64	.122
A18	9/16	1 1/2	13/16	.119
A19	19/32	1 1/2	27/32	.125
A20	5/8	1 1/2	7/8	.125
A21	21/32	1 1/2	19/16	.163
A22	11/16	1 1/2	31/32	.163
A24	3/4	1 1/2	11/32	.181
A25	25/32	1 1/2	11/16	.188
A26	13/16	1 1/2	11/8	.225
A28	7/8	1 1/2	13/16	.244
A30	15/16	1 1/2	11/4	.275
A32	1	1 1/2	111/32	.300
A34	1 1/16	1 3/4	17/16	.388
A36	1 1/8	1 3/4	1 1/2	.397
A38	1 3/16	1 3/4	1 5/8	.438
A40	1 1/4	1 3/4	1 11/16	.466
A42	1 5/16	2 1/16	1 7/8	.937

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 1—1/2" Drive.

8-POINT — REGULAR LENGTH

Number	Opening	O.A. Length	O.D. Socket End	Weight Lbs.
AS12	3/8	1 1/2	11/16	.120
AS14	7/16	1 1/2	13/16	.141
AS16	1/2	1 1/2	7/8	.125
AS18	9/16	1 1/2	11/32	.225
AS20	5/8	1 1/2	11/16	.225
AS22	11/16	1 1/2	13/16	.292
AS24	3/4	1 1/2	11/4	.356
AS26	13/16	1 1/2	13/8	.394
AS28	7/8	1 1/2	1 1/2	.509
AS30	15/16	1 1/2	1 5/8	.556
AS32	1	1 1/2	1 11/16	.663

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 1—1/2" Drive.

12-POINT — DEEP

New Number	Old Number	Opening	O.A. Length	O.D. Socket End	Weight Lbs.
AL16	LD16	1/2	3/4	47/64	.294
AL18	LD18	9/16	3/4	51/64	.269
AL20	LD20	5/8	3/4	7/8	.238
AL22	LD22	11/16	3/4	15/16	.269
AL24	LD24	3/4	3/4	11/32	.333
AL26T	LD26T	13/16	3/4	11/16	.350
AL28	LD28	7/8	3/4	13/16	.450
AL28T	LD28T	7/8	3/4	19/64	.425
AL30	LD30	15/16	3/4	11/4	.500
AL32	LD32	1	3/4	111/32	.575
AL32T	LD32T	1	3/4	19/32	.531
AL34	LD34	1 1/16	3/4	17/16	.713
AL36	LD36	1 1/8	3/4	1 1/2	.750

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 2.

6-POINT — DEEP

Number	Opening	O.A. Length	O.D. Socket End	Weight Lbs.
ALH12	3/8	3/4	39/64	.343
ALH14	7/16	3/4	11/16	.343
ALH16	1/2	3/4	47/64	.343
ALH18	9/16	3/4	51/64	.312
ALH20	5/8	3/4	7/8	.312
ALH22	11/16	3/4	15/16	.312
ALH24	3/4	3/4	11/32	.375
ALH26	13/16	3/4	11/16	.375
*ALH26R	13/16	2 5/8	1 1/16	.312
ALH28	7/8	3/4	13/16	.500
ALH30	15/16	3/4	11/4	.531
ALH32	1	3/4	111/32	.625
ALH34	1 1/16	3/4	17/16	.750
ALH36	1 1/8	3/4	1 1/2	.812
ALH40	1 1/4	3 1/2	1 25/32	1.375

*13/16 Spark Plug Holding Socket Has Rubber Insert.

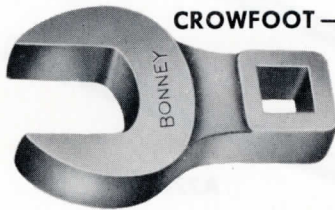


ADAPTERS



STUD REMOVER

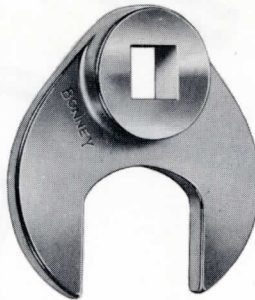
1/2 INCH SQUARE DRIVE Attachments



CROWFOOT — OPEN END



CROWFOOT — BOX TYPE



CROWFOOT CAMBER WRENCHES

4206 - 4298 ADAPTERS

★4206—Female Drive 1/2 inch. Male Drive 3/8 inch. Weight: .144 lbs.

4298 — Female Drive 1/2 inch. Male Drive 3/4 inch. Weight: 1.438 lbs.

2591 STUD REMOVER

Will handle studs from 1/4 inch to 3/4 inch diameter. An eccentrically mounted roller with deep milled edge provides a non-slipping, non-burring wedge action.

★2591—Length: 2 inches. Weight: .053 lbs.

Fed. Spec.: GGG-S-775, Type 3.

CROWFOOT CAMBER WRENCHES

These special Crowfoot Camber Wrenches were developed to handle camber adjustments with 1/2 inch square drive attachments. No. 1609 fits Pontiac; No. 1611 fits Ford, Mercury, Lincoln; No. 1612 fits Chrysler; No. 1613 fits Plymouth, Dodge, DeSoto; Nos. 1614 and 1615 fit other makes and models.

Number	Opening	Diameter	Weight Lbs.
†★1609	1/4	2 5/8	.250
†★1611	1 5/16	2 5/8	.250
†★1612	1 13/32	2 5/8	.256
†★1613	1 7/16	2 5/8	.247
†★1614	1 1/2	2 5/8	.244
†★1615	1 3/8	2 5/8	.247

†Available From Stock Until Inventory Depleted.

CROWFOOT — BOX TYPE

These Crowfoot Wrenches complement the 1/4 inch and 3/8 inch square drive series and provide the most complete size range in the industry.

Number	Opening	* TC	Diameter Head	Thkns. Head	Slotted Opening	Weight Lbs.
★AF36	1 1/8	1 9/64	1 19/32	1 5/16	7/8	.213
★AF38	1 3/16	1 11/64	1 21/32	1 5/16	59/64	.209
★AF40	1 1/4	1 7/32	1 3/4	1 5/16	61/64	.231
★AF42	1 5/16	1 1/4	1 13/16	1 5/16	63/64	.231
★AF44	1 3/8	1 19/64	1 29/32	1	1 5/64	.284
★AF46	1 7/16	1 1/2	1 31/32	1	1 5/64	.303
★AF48	1 1/2	1 23/64	2 1/32	1	1 9/64	.266
★AF50	1 9/16	1 13/32	2 1/8	1	1 11/64	.338
★AF52	1 5/8	1 7/16	2 3/16	1	1 1/4	.344
★AF54	1 11/16	1 1/2	2 9/32	1 1/16	1 21/64	.413
★AF56	1 3/4	1 17/32	2 11/32	1 1/16	1 21/64	.406
★AF58	1 13/16	1 1/2	2 7/16	1 1/16	1 23/64	.375
★AF60	1 7/8	1 5/8	2 17/32	1 1/8	1 25/64	.500
★AF62	1 15/16	1 21/32	2 19/32	1 1/8	1 29/64	.500
★AF64	2	1 45/64	2 11/16	1 1/8	1 37/64	.550

Ref.: Fed. Spec. GGG-W-641B—Type 2—Class 1.

CROWFOOT — OPEN END

Number	Opening	* TC	Diameter Head	Thkns. Head	Weight Lbs.
★AC30	1 5/16	1 3/4	1 15/16	1/2	.375
★AC32	1	1 3/4	1 15/16	1/2	.366
★AC34	1 1/16	1 3/4	2 1/8	5/8	.475
★AC36	1 1/8	1 3/4	2 1/8	5/8	.444
★AC38	1 3/16	1 3/4	2 1/4	5/8	.506
★AC40	1 1/4	1 3/4	2 1/4	5/8	.475
★AC42	1 5/16	2	2 1/2	5/8	.600
★AC44	1 3/8	2	2 1/2	5/8	.563
★AC46	1 7/16	2	2 3/4	5/8	.694
★AC48	1 1/2	2	2 3/4	5/8	.669
★AC50	1 9/16	2	2 15/16	5/8	.750
★AC52	1 5/8	2	2 15/16	5/8	.744
★AC54	1 11/16	2	2 15/16	5/8	.694
★AC56	1 3/4	2 1/4	3 1/4	5/8	.919
★AC58	1 13/16	2 1/4	3 1/4	5/8	.875
★AC60	1 7/8	2 1/4	3 1/4	5/8	.850
★AC62	1 15/16	2 1/4	3 9/16	5/8	1.100
★AC64	2	2 1/4	3 9/16	5/8	1.069
★AC66	2 1/16	2 1/4	3 9/16	5/8	1.025
★AC68	2 1/8	2 1/2	3 15/16	5/8	1.150
★AC70	2 3/16	2 1/2	3 15/16	5/8	1.125
★AC72	2 1/4	2 1/2	3 15/16	5/8	1.088
★AC74	2 5/16	2 1/2	4 3/8	5/8	1.500
★AC76	2 3/8	2 1/2	4 3/8	5/8	1.513
★AC78	2 7/16	2 1/2	4 3/8	5/8	1.425
★AC80	2 1/2	2 1/2	4 3/8	5/8	1.375
★AC82	2 9/16	2 1/2	4 3/8	5/8	1.388
★AC84	2 5/8	2 1/2	5 1/32	5/8	1.825
★AC86	2 11/16	2 1/2	5 1/32	5/8	1.738
★AC88	2 3/4	2 1/2	5 1/32	5/8	1.700
★AC90	2 13/16	2 1/2	5 1/32	5/8	1.650
★AC92	2 7/8	2 1/2	5 1/32	5/8	1.619
★AC94	2 15/16	2 1/2	5 1/32	5/8	1.544
★AC96	3	2 5/8	5 1/32	5/8	1.519

*Torque Lever Arm Dimension.

1/2 INCH SQUARE DRIVE Handles and Attachments

AA707 RATCHET

The new Bonney 60 tooth wedge action reversible ratchet gives a new principle to ratcheting. The harder you pull, the tighter the ratchet holds. Positive power with simplified construction for long, dependable service.

AA707—1/2 inch Ratchet. Length: 10 inches. Weight: 1.312 lbs.

AA707R—Ratchet Repair Kit consisting of one each: pawl, spring, core, and ring.

A722 - A728 HINGE HANDLES

A722—Length: 15 1/2 inches. Weight: 1.650 lbs.

A724—Length: 18 1/2 inches. Weight: 1.825 lbs.

A728—Length: 24 inches. Weight: 2.312 lbs.

Fed. Spec.: GGG-W-641B, Type 5.

A775 CROSS BAR

A775—Length: 8 inches. Weight: .244 lbs.

A744 SPEEDER HANDLE

A744—Length: 19 inches. Weight: 1.625 lbs.

Fed. Spec.: GGG-W-641B, Type 7, Class 1.

A602 - A636 EXTENSIONS

A602—Length: 2 inches. Weight: .181 lbs.

A605—Length: 5 inches. Weight: .384 lbs.

A610—Length: 10 inches. Weight: .650 lbs.

A620—Length: 20 inches. Weight: 1.156 lbs.

A636—Length: 36 inches. Weight: 2.125 lbs.

Fed. Spec.: GGG-W-641B, Type 13, Class 1.

A760 UNIVERSAL JOINT

A760—Length: 2 5/8 inches. Weight: .275 lbs.

Fed. Spec.: GGG-W-641B, Type 12.

A730 SLIDING "T" HANDLE

A730—Length: 11 inches. Weight: 1.075 lbs.

Fed. Spec.: GGG-W-641B, Type 8, Class 1.

A785 - A787 DRAG LINK SOCKETS

★A785—Length: 1 19/32 inches. Width: 15/16 inch. Thickness: .150 inch. Weight: .191 lbs.

★A786—Length: 1 19/32 inches. Width: 47/64 inch. Thickness: .107 inch. Weight: .175 lbs.

★A787—Length: 1 11/16 inches. Width: 13/16 inch. Thickness: .150 inch. Weight: .241 lbs.

AH18V (OLD NO.) CONNECTING ROD SOCKET FOR FORD

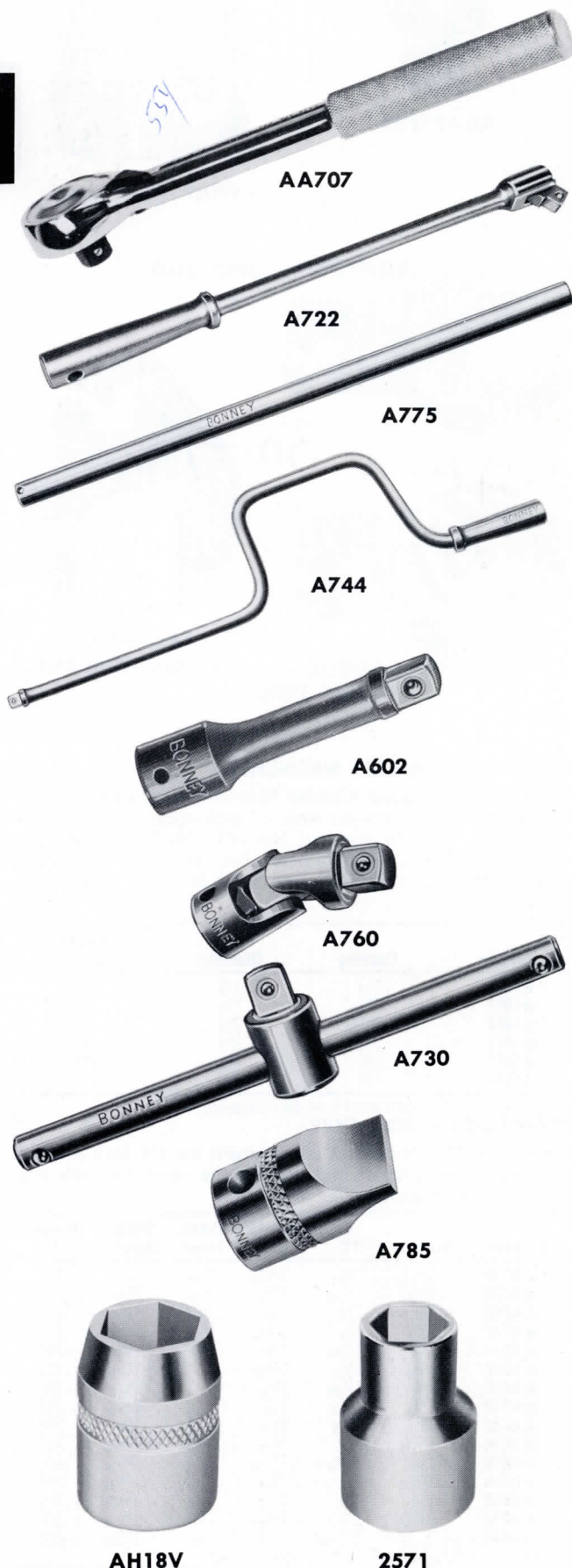
Used on connecting rod on Ford cars.

★AH18V—Length: 1 7/32 inches. Weight: .109 lbs.

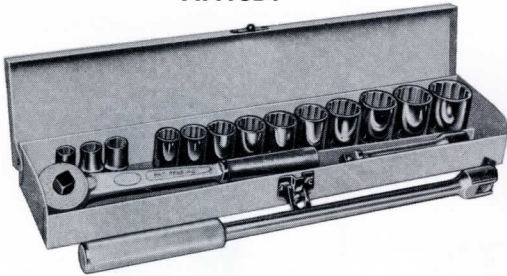
2571 CONNECTING ROD SOCKET FOR CADILLAC

†★2571—Length: 1 3/8 inches. Weight: .134 lbs.

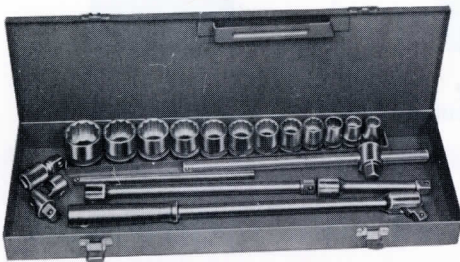
†Available From Stock Until Inventory Depleted.



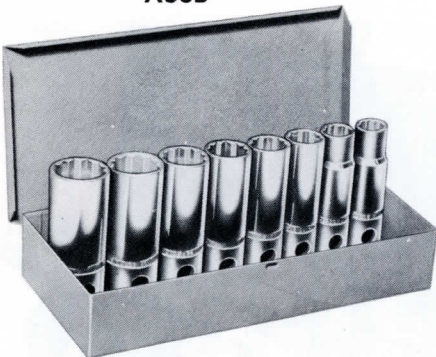
**A50B
AA16B1**



A51B



**A52B
A53B**



A54B



**1/2 INCH SQUARE DRIVE
Tool Sets**

The popular 1/2 inch drive tool assortments listed below cover a variety of sets from the basic AA16B1 through sets having a full range of attachments.

SET NO. A50B (18 Pieces — 9.000 lbs.)

Number	Description	Number	Description
A14	7/16" 12-Pt. Socket	A32	1" 12-Pt. Socket
A16	1/2" 12-Pt. Socket	A34	1 1/16" 12-Pt. Socket
A18	9/16" 12-Pt. Socket	A36	1 1/8" 12-Pt. Socket
A20	5/8" 12-Pt. Socket	A38	1 3/16" 12-Pt. Socket
A22	11/16" 12-Pt. Socket	A40	1 1/4" 12-Pt. Socket
A24	3/4" 12-Pt. Socket	A722	Hinge Handle
A26	13/16" 12-Pt. Socket	A605	5" Extension
A28	7/8" 12-Pt. Socket	AA707	Reversible Ratchet
A30	15/16" 12-Pt. Socket	MB46	Metal Box, 2" x 17 1/8" x 3 1/2"

SET NO. A51B (20 Pieces — 10.500 lbs.)

A16	1/2" 12-Pt. Socket	A36	1 1/8" 12-Pt. Socket
A18	9/16" 12-Pt. Socket	A40	1 1/4" 12-Pt. Socket
A20	5/8" 12-Pt. Socket	A722	Hinge Handle
A22	11/16" 12-Pt. Socket	A775	Cross Bar
A24	3/4" 12-Pt. Socket	A730	Sliding T
A26	13/16" 12-Pt. Socket	A602	2" Extension
A28	7/8" 12-Pt. Socket	A605	5" Extension
A30	15/16" 12-Pt. Socket	A610	10" Extension
A32	1" 12-Pt. Socket	A760	Universal Joint
A34	1 1/16" 12-Pt. Socket	MB50	Metal Box, 1 1/8" x 18 3/8" x 6 1/4"

SET NO. A52B (9 Pieces — 3.875 lbs.)

ALH16	1/2" 6-Pt. Deep Socket	ALH26	13/16" 6-Pt. Deep Socket
ALH18	9/16" 6-Pt. Deep Socket	ALH28	7/8" 6-Pt. Deep Socket
ALH20	5/8" 6-Pt. Deep Socket	ALH30	15/16" 6-Pt. Deep Socket
ALH22	11/16" 6-Pt. Deep Socket	MB20	Metal Box, 8 1/4" x 3 3/4" x 1 1/2"
ALH24	3/4" 6-Pt. Deep Socket		

SET NO. A53B (9 Pieces — 3.875 lbs.)

AL16	1/2" 12-Pt. Deep Socket	AL26	13/16" 12-Pt. Deep Socket
AL18	9/16" 12-Pt. Deep Socket	AL28	7/8" 12-Pt. Deep Socket
AL20	5/8" 12-Pt. Deep Socket	AL30	15/16" 12-Pt. Deep Socket
AL22	11/16" 12-Pt. Deep Socket	MB20	Metal Box, 8 1/4" x 3 3/4" x 1 1/2"
AL24	3/4" 12-Pt. Deep Socket		

SET NO. A54B (26 Pieces — 21.500 lbs.)

A12	3/8" 12-Pt. Socket	A38	1 3/16" 12-Pt. Socket
A14	7/16" 12-Pt. Socket	A40	1 1/4" 12-Pt. Socket
A16	1/2" 12-Pt. Socket	A42	1 5/16" 12-Pt. Socket
A18	9/16" 12-Pt. Socket	A722	Hinge Handle
A20	5/8" 12-Pt. Socket	A775	Cross Bar
A22	11/16" 12-Pt. Socket	A730	Sliding T
A24	3/4" 12-Pt. Socket	A602	2" Extension
A26	13/16" 12-Pt. Socket	A605	5" Extension
A28	7/8" 12-Pt. Socket	A610	10" Extension
A30	15/16" 12-Pt. Socket	AA707	Reversible Ratchet
A32	1" 12-Pt. Socket	A760	Universal Joint
A34	1 1/16" 12-Pt. Socket	A744	10" Speeder Handle
A36	1 1/8" 12-Pt. Socket	MB60Z	Metal Hip Roof Box, 9" x 20" x 8"

SET NO. AA16B1 (13 Pieces — 5.250 lbs.)

A12	3/8" 12-Pt. Socket	A26	13/16" 12-Pt. Socket
A14	7/16" 12-Pt. Socket	A28	7/8" 12-Pt. Socket
A16	1/2" 12-Pt. Socket	A30	15/16" 12-Pt. Socket
A18	9/16" 12-Pt. Socket	A32	1" 12-Pt. Socket
A20	5/8" 12-Pt. Socket	AA707	Reversible Ratchet
A22	11/16" 12-Pt. Socket	MB46	Metal Box, 2" x 17 1/8" x 3 1/2"
A24	3/4" 12-Pt. Socket		



**R28—R40
12-POINT REGULAR**



**R42—R48
12-POINT REGULAR**



**R50—R72
12-POINT REGULAR**



6-POINT DEEP

**3/4 INCH SQUARE DRIVE "R" SERIES SOCKETS
Unsurpassed for Rugged Strength Combined with Lightweight**

Where rugged strength combined with lightweight is the need, Bonney 3/4 inch drive heavy-duty sockets, handles and attachments are unsurpassed.

Use of selected alloy steels plus refined grain structure from hot working make these tools the most efficient for all the heavy-duty jobs of industrial, truck fleet, and contractor uses.

12-POINT — REGULAR LENGTH

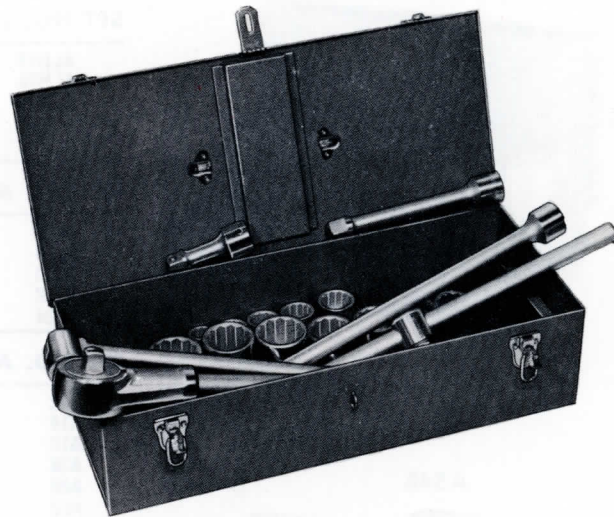
Number	Opening	O.A. Length	O.D. Socket End	Weight Lbs.
R28	7/8	2	1 1/16	.400
R30	1 1/16	2	1 3/8	.406
R32	1	2	1 7/16	.459
R34	1 1/16	2	1 9/16	.600
R36	1 1/8	2	1 5/8	.688
R38	1 3/16	2	1 11/16	.669
R40	1 1/4	2 3/16	1 29/32	.775
R42	1 5/16	2 3/16	1 7/8	.900
R44	1 3/8	2 3/16	1 5/16	.950
R46	1 7/16	2 3/8	2	1.000
R48	1 1/2	2 3/8	2 1/16	1.075
R50	1 9/16	2 3/8	2 1/8	1.113
R52	1 5/8	2 3/8	2 1/4	1.369
R54	1 11/16	2 7/16	2 7/32	1.000
R56	1 3/4	2 1/2	2 9/16	1.150
R58	1 13/16	2 13/16	2 3/8	1.400
R60	1 7/8	2 3/8	2 5/16	1.463
R64	2	3	2 9/16	1.531
R66	2 1/16	3	2 7/16	2.363
R68	2 1/8	3 1/16	2 7/8	2.200
R70	2 3/16	3 1/8	3	2.488
R72	2 1/4	3 3/16	3	2.200

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 1.

6-POINT — DEEP

Number	Opening	O.A. Length	O.D. Socket End	Weight Lbs.
RLH32	1	3 1/2	1 1/2	.963
RLH34	1 1/16	3 1/2	1 9/16	1.025
RLH36	1 1/8	3 1/2	1 5/8	1.075
RLH40	1 1/4	3 1/2	1 25/32	1.306

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 2.



SET NO. HD1B (20 Pieces — 40.187 lbs.)

Providing a size range from 15/16 inch through 2 inches, this set is popular for truck, tractor and industrial use.

Number	Description	Number	Description
R30	15/16" 12-Pt. Socket	R60	1 7/8" 12-Pt. Socket
R32	1"	R64	2"
R34	1 1/16"	R701	Reversible Ratchet
R36	1 1/8"	R730A	T Handle
R40	1 1/4"	R720A	Hinge Handle
R42	1 5/16"	R609	8 1/2" Extension
R46	1 7/16"	R604	4" Extension
R48	1 1/2"	R617	17" Extension
R52	1 5/8"	MB68	Metal Box, 21 1/2" x 9 1/2" x 4 1/2"
R54	1 11/16"		
R58	1 13/16"		

**3/4 INCH HEAVY-DUTY
SQUARE DRIVE
Handles and Attachments**



R701 REVERSIBLE RATCHET

Rugged in construction with drag free action to get the job done faster. Detachable head construction with replaceable parts makes on the job repair quick and easy.

R701—Length: 20 inches. Weight: 7.375 lbs.

R701-6—Snap Ring only.

R701-9—Replacement Head only.

Fed. Spec.: GGG-W-641B, Type 6, Class I.

4211 - 4299 ADAPTERS

4211—Female Drive 3/4 inch. Male Drive 1 inch. Weight: .600 lbs.

★4299—Female Drive 3/4 inch. Male Drive 1/2 inch. Weight: .344 lbs.

R760 UNIVERSAL JOINT

R760—Length: 4 inches. Weight: 1 lb.

Fed. Spec.: GGG-W-641B, Type 12.

R604 - R617 EXTENSIONS

R604—Length: 4 inches. Weight: .875 lbs.

R609—Length: 8 7/16 inches. Weight: 1.538 lbs.

R617—Length: 17 inches. Weight: 2.655 lbs.

Fed. Spec.: GGG-W-641B, Type 13, Class 1.

R720A HINGE HANDLE

The combination of R776 Handle and R721 Hinge Head.

Note — This tool plus the R731 Head only provides two tools in one. Weight: 4.812 lbs.

R730A "T" HANDLE

The combination of R776 Handle and R731 Drive Head.

Note — This tool plus the R721 Head only provides two tools in one. Weight: 3.750 lbs.

R721 HINGE HEAD ONLY

Interchangeable head for use with the R776 Handle to form offset hinge handle.

R721—Length: 5 5/8 inches. Weight: 3.340 lbs.

R731 SLIDING "T" HEAD ONLY

Interchangeable head for use with the R776 Handle to form Sliding "T" Handle.

R731—Length: 2 3/8 inches. Weight: .718 lbs.

R776 HANDLE ONLY

This handle is especially made to be interchangeable with both the R721 Flex Head and the R731 Sliding "T" Head. Provides two tools in one with the purchase of one handle and the two heads — reduces tool box weight.

R776—Length: 18 inches. Diameter: 7/8 inch. Weight: 3.06 lbs.



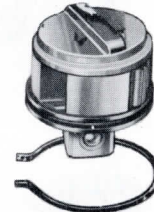
**X46—X60
12-POINT REGULAR**



**X64—X100
12-POINT REGULAR**



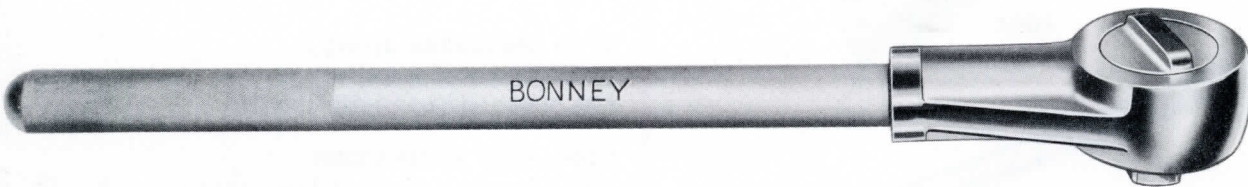
ADAPTER



REPLACEABLE HEAD

**1 INCH SQUARE DRIVE "X" SERIES SOCKETS
EXTRA HEAVY DUTY • Handles, Attachments and Set**

Built to provide the durability, power, and brute strength necessary for those really tough, extra heavy-duty jobs. Electronically controlled hardening and tempering combined with alloy steels with built-in toughness and hot forming for refined steel grain structure. These tools are designed to give maximum service under the worst conditions.



12-POINT—REGULAR LENGTH

Number	Opening	O.A. Length	O.D. Socket End	Weight Lbs.
X46	17/16	25/16	2	.863
X48	1 1/2	2 3/8	2 1/16	.950
X52	1 5/8	2 1/2	2 1/4	1.144
X58	1 13/16	2 7/8	2 9/16	1.413
X60	1 7/8	2 15/16	2 5/8	2.025
X64	2	3	2 3/4	2.513
X70	2 3/16	3 1/8	3	2.563
X72	2 1/4	3 3/16	3 1/16	2.675
X74	2 5/16	3 1/4	3 3/16	2.719
X76	2 3/8	3 5/16	3 1/4	2.944
X78	2 7/16	3 3/8	3 5/16	3.044
X80	2 1/2	3 7/16	3 3/8	3.094
X82	2 9/16	3 1/2	3 3/8	3.175
X84	2 5/8	3 17/32	3 9/16	3.563
X88	2 3/4	3 9/16	3 23/32	4.369
X94	2 15/16	3 11/16	4	5.250
X96	3	3 13/16	4	8.250
X100	3 1/8	3 13/16	4 3/16	8.948

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 1.



X730 SLIDING "T" HANDLE

Consists of X31 Bar and X32 Drive Head.
Length: 22 inches. Weight: 6.025 lbs.

4213 ADAPTER

Female Drive 1 inch. Male Drive 3/4 inch. Weight: 1.375 lbs.



TOOL SET NO. XH1B (9 Pieces—28.25 lbs.)

This basic extra heavy-duty set provides a size range through 2 3/8 inches with room in box to expand set as needed.

X701 REVERSIBLE RATCHET

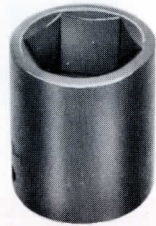
Rugged in construction with drag free action to get the job done faster. Detachable head construction with replaceable parts makes on the job repair quick and easy.

X701—Length: 20 inches. Weight: 7.375 lbs.

R701-6—Snap Ring only.

X701-9—Replacement Head only.

Number	Description	Number	Description
X46	17/16" 12-Pt. Socket	X70	2 3/16" 12-Pt. Socket
X48	1 1/2"	X76	2 3/8"
X52	1 5/8"	X701	Ratchet
X58	1 13/16"	MB64	Metal Box, 21 1/2" x 9 1/2" x 4 1/2"
X64	2"		



6-POINT REGULAR



6-POINT DEEP



POWER EXTENSIONS

POWER ADAPTERS

POWER AND IMPACT SOCKETS AND ATTACHMENTS
3/8, 1/2 and 3/4 Inch Square Drive

Engineered for extra-rugged service on all types power and impact wrenches. Also popular for manual attachments where heavy-duty use is necessary. All items black oxide finish.

3/8 INCH SQUARE DRIVE—6-POINT REGULAR LENGTH

Number	Nominal Opening	O.D. Socket End	O.D. Drive End	O.A. Length	Weight Lbs.
P 2212	3/8	.552	11/16	7/8	.062
P 2214	7/16	.633	11/16	7/8	.060
P 2216	1/2	3/4	3/4	7/8	.070
P 2218	9/16	.791	.791	7/8	.083
P 2220	5/8	7/8	7/8	7/8	.118
P 2222	11/16	31/32	31/32	1	.187
P 2224	3/4	11/32	11/32	1	.187

Ref.: Fed. Spec. GGG-W-660—Type 1—Class 1—Style A.

1/2 INCH SQUARE DRIVE—6-POINT REGULAR LENGTH

P 3212	3/8	.605	7/8	1 1/2	.160
P 3214	7/16	.690	7/8	1 1/2	.154
P 3216	1/2	.773	15/16	1 1/2	.23
P 3218	9/16	.854	15/16	1 1/2	.25
P 3220	5/8	.941	1	1 1/2	.23
P 3222	11/16	1.022	1.022	1 1/2	.253
P 3224	3/4	1 1/8	1 1/8	1 1/2	.279
P 3226	13/16	1 3/16	1 3/16	1 1/2	.305
P 3228	7/8	1.273	1.273	1 1/2	.388
P 3230	15/16	1 3/8	1 3/8	1 3/4	.482
P 3232	1	1 7/16	1 7/16	1 3/4	.518
P 3234	1 1/16	1.522	1.522	2	.689
P 3236	1 1/8	1.605	1.605	2	.677
P 3238	1 3/16	1 11/16	1 11/16	2	.795
P 3240	1 1/4	1.774	1.774	2	.908

Ref.: Fed. Spec. GGG-W-660—Type 1—Class 1—Style A.

1/2 INCH SQUARE DRIVE—6-POINT DEEP

Number	Nominal Opening	O.D. Socket End	O.D. Drive End	O.A. Length	Weight Lbs.
P 3212L	3/8	.605	7/8	3 1/4	.358
P 3214L	7/16	.690	7/8	3 1/4	.381
P 3216L	1/2	.773	15/16	3 1/4	.432
P 3218L	9/16	.854	15/16	3 1/4	.427
P 3220L	5/8	.941	1	3 1/4	.468
P 3222L	11/16	1.022	1.022	3 1/4	.524
P 3224L	3/4	1 1/8	1 1/8	3 1/4	.577
P 3226L	13/16	1 3/16	1 3/16	3 1/4	.617
P 3228L	7/8	1.273	1.273	3 1/2	.836
P 3230L	15/16	1 3/8	1 3/8	3 1/2	.919
P 3232L	1	1 7/16	1 7/16	3 1/2	.965

3/4 INCH SQUARE DRIVE—6-POINT REGULAR LENGTH

I 5224	3/4	1 1/4	1 5/8	2 1/4	.903
I 5226	13/16	1 3/8	1 5/8	2 1/4	.923
I 5228	7/8	1 1/2	1 5/8	2 1/4	.993
I 5230	15/16	1 9/16	1 5/8	2 3/8	.85
I 5232	1	1 5/8	1 5/8	2 3/8	.89
I 5234	1 1/16	1 11/16	1 11/16	2 1/2	1.05
I 5236	1 1/8	1 3/4	1 3/4	2 1/2	1.02
I 5238	1 3/16	1 7/8	1 7/8	2 1/2	1.48
I 5240	1 1/4	2	2	2 5/8	1.47
I 5242	1 3/16	2 1/16	2 1/16	2 5/8	1.77
I 5244	1 3/8	2 1/8	2 1/8	2 3/4	1.66
I 5246	1 7/16	2 1/4	2 1/4	2 3/4	2.17
I 5248	1 1/2	2 5/16	2 5/16	2 3/4	2.22

3/4 INCH SQUARE DRIVE—6-POINT DEEP

I 5224L	3/4	1 1/4	1 5/8	3 1/2	1.51
I 5226L	13/16	1 3/8	1 5/8	3 1/2	1.51
I 5228L	7/8	1 1/2	1 5/8	3 1/2	1.46
I 5230L	15/16	1 9/16	1 5/8	3 1/2	1.41
I 5232L	1	1 5/8	1 5/8	3 1/2	1.35
I 5234L	1 1/16	1 11/16	1 11/16	3 1/2	1.42
I 5236L	1 1/8	1 3/4	1 3/4	3 1/2	1.36
I 5240L	1 1/4	2	2	3 3/4	2.07
I 5248L	1 1/2	2 5/16	2 5/16	3 3/4	2.87

3/4 INCH SQUARE DRIVE—4-POINT REGULAR LENGTH
 (For Use on Budd Wheels)

I 5426	13/16	1 5/8	1 5/8	2 1/4	1.01
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BONNEY POWER ATTACHMENTS

POWER ADAPTERS

Number	Female	Male	O.A. Length	Weight Lbs.
AP 23	3/8	1/2	1 1/2	.200
AP 32	1/2	3/8	1 1/2	.260
AP 43	5/8	1/2	1 53/64	.300
AP 53	3/4	1/2	2 5/32	.640

Ref.: Fed. Spec. GGG-W-660—Type 3.

POWER EXTENSIONS

Number	Square Drive	O.A. Length	Weight Lbs.
EP 2-3	3/8	3	.130
EP 2-6	3/8	6	.250
EP 3-5	1/2	5	.400
EP 3-10	1/2	10	.910
EP 5-4	3/4	3 1/2	1.200
EP 5-10	3/4	10	3.430

Ref.: Fed. Spec. GGG-W-660—Type 2.

"O" RINGS

PINS

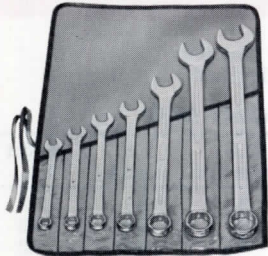
Ring Number	Used on Socket Number	Pin Number	Used on Socket Number
RIB 28	I 5224 thru I 5242	SP 22	I 5224 thru I 5242
RIB 32	I 5244 thru I 5254	SP 27	I 5244 thru I 5254

(Both Regular and Deep) (Both Regular and Deep)



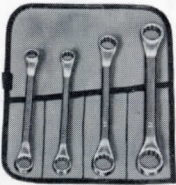
METRIC TOOL SETS & 3/8 INCH DRIVE SOCKETS
Open End, Combination, Short Box Wrenches

SET NO. M205R COMBINATION WRENCH SET
 (7 Pieces in Leatherette Roll LR80 — 2.500 lbs.)



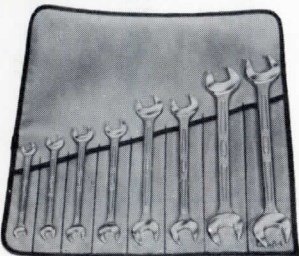
Number	Opening MM
MEB8	8
MEB9	9
MEB10	10
MEB11	11
MEB12	12
MEB13	13
MEB14	14

SET NO. M250R SHORT BOX WRENCH SET
 (4 Pieces in Leatherette Roll LR104 — .563 lbs.)



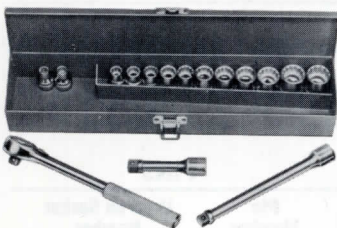
Number	Opening MM
MBS911	9 & 11
MBS1012	10 & 12
MBS1314	13 & 14
MBS1517	15 & 17

SET NO. M251R OPEN END WRENCH SET
 (8 Pieces in Leatherette Roll No. LR84 — 1.500 lbs.)



Number	Opening MM
ME68	6 & 8
ME79	7 & 9
ME1012	10 & 12
ME1113	11 & 13
ME1416	14 & 16
ME1517	15 & 17
ME1819	18 & 19
ME2022	20 & 22

SET NO. M253B MASTER TOOL SET
 (17 Pieces — 3.375 lbs.)



Number	Description
MT7	7 MM 12-Pt. Socket
MT8	8 MM
MT9	9 MM
MT10	10 MM
MT11	11 MM
MT12	12 MM
MT13	13 MM
MT14	14 MM
MT15	15 MM
MT16	16 MM
MT17	17 MM
MT18	18 MM
MT19	19 MM
T603	3" Extension
T606	6" Extension
TT707	Reversible Ratchet
MB37-1	Metal Box, 12 ¹ / ₁₆ " x 2 ¹ / ₁₆ " x 1 ³ / ₄ "

Bonney Metric size tools provide the popular openings needed to service foreign-made cars using millimeter fasteners.

METRIC OPEN END WRENCHES

Number	Opening Sizes, MM	O.E. Head	Box Head	O.A. Length	Thkns. Head	Weight Lbs.
ME68	6 & 8	9/16	11/16	4 1/4	5/32	.025
ME79	7 & 9	11/16	13/16	4 3/4	3/16	.060
ME1012	10 & 12	13/16	15/16	5 1/4	7/32	.075
ME1113	11 & 13	15/16	1 1/16	5 3/4	15/64	.113
ME1416	14 & 16	1 1/16	1 3/16	6 1/4	1/4	.144
ME1517	15 & 17	1 3/16	1 5/16	7	17/64	.197
ME1819	18 & 19	1 5/16	1 7/16	7 3/4	9/32	.263
ME2022	20 & 22	1 9/16	1 11/16	9 1/4	1 1/32	.406

METRIC COMBINATION WRENCHES

Number	Opening MM	O.E. Head	Box Head	O.A. Length	Head Thickness	Weight Lbs.	
MEB7	7	19/32	7/16	3	5/32	3/16	.025
MEB8	8	25/32	1/2	3 3/4	11/64	7/32	.044
MEB9	9	25/32	1/2	3 3/4	11/64	7/32	.044
MEB10	10	27/32	9/16	4 1/2	3/16	1/4	.063
MEB11	11	29/32	21/32	5 3/16	7/32	5/16	.081
MEB12	12	1 1/16	47/64	5 15/16	1/4	5/16	.128
MEB13	13	1 1/16	47/64	5 15/16	1/4	5/16	.128
MEB14	14	1 1/32	53/64	6 11/16	9/32	11/32	.181
MEB15	15	1 7/32	53/64	6 11/16	9/32	11/32	.181
MEB16	16	1 11/32	29/32	7 7/16	5/16	3/8	.264
MEB17	17	1 15/32	1	8 5/16	11/32	13/32	.338
MEB18	18	1 15/32	1	8 5/16	11/32	13/32	.338
MEB19	19	1 9/16	1 5/64	9 3/16	3/8	7/16	.406
MEB20	20	1 11/16	1 3/16	10 1/4	3/8	31/64	.590

METRIC BOX END WRENCHES (OFFSET)

Number	Opening Size, MM	Offset	O.A. Length	Head Thickness	Weight Lbs.		
MBS911	9	11	1/2	4 3/4	1/4	9/32	.069
MBS1012	10	12	1/2	4 3/4	1/4	9/32	.069
MBS1314	13	14	1/2	5 3/8	21/64	23/64	.125
MBS1517	15	17	1/2	5 3/4	23/64	25/64	.150

METRIC 3/8 INCH DRIVE SOCKETS

Number	Opening MM	Diameter	O.A. Length	Weight Lbs.	
MT7	7	13/32	21/32	1	.030
MT8	8	29/64	21/32	1	.033
MT9	9	1/2	21/32	1	.035
MT10	10	9/16	21/32	1	.038
MT11	11	39/64	21/32	1	.040
MT12	12	21/32	21/32	1	.041
MT13	13	23/32	23/32	1	.042
MT14	14	49/64	49/64	1	.044
MT15	15	13/16	13/16	1	.046
MT16	16	55/64	55/64	1	.050
MT17	17	57/64	57/64	1	.055
MT18	18	59/64	59/64	1	.068
MT19	19	1	11/16	1 7/32	.075

CROWFOOT ATTACHMENT—OPEN END

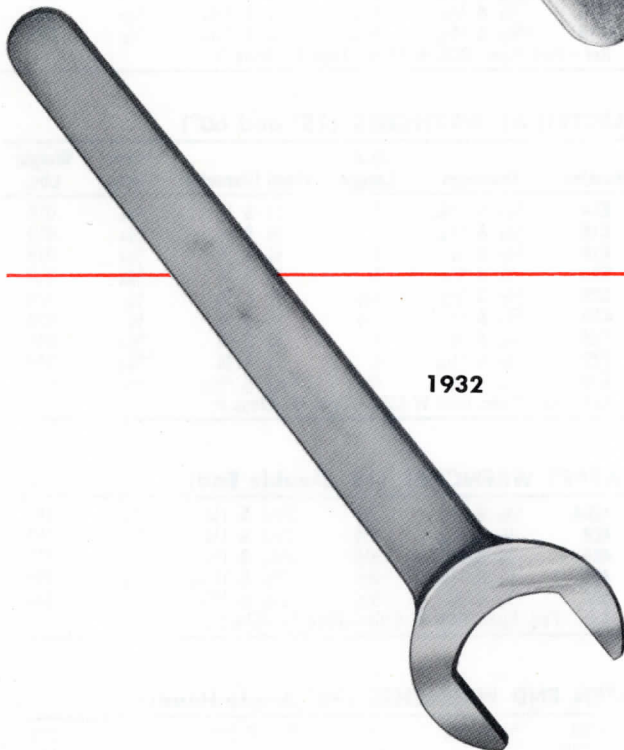
Number	Opening MM	Weight Lbs.
* MTC14	14	.187

* Special valve adjusting wrench for Mercedes-Benz.

**SERVICE WRENCHES
30° Angle Open End and
Open End Straight**



1224



1932

SERVICE WRENCHES (30° Angle)

These wrenches have extra thin heads set at a 30° angle from handle for working in very close quarters. Especially useful in a wide range of aircraft applications. Wrenches Nos. 1236, 1240, 1244, and 1252 are used on Sporlan expansion valves.

Made from the finest grade alloy steel with polished heads and nickel chrome plated.

Special Orders: Size openings up to 3 5/8 inches available on special order.

Number	Opening	O.A. Length	Diameter Head	Thkns. Head	Weight Lbs.
1224	3/4	6 1/4	1 1/16	1/4	.219
1224A	1 1/8	6 7/8	1 7/8	1/4	.281
1226	1 3/16	6 1/4	1 11/16	1/4	.250
1228	7/8	6 1/4	1 11/16	1/4	.231
1230	1 5/16	6 7/8	1 7/8	1/4	.294
1232	1	6 7/8	1 7/8	1/4	.294
1232A	1 1/32	6 1/4	1 11/16	1/4	.250
1234	1 1/16	6 7/8	1 7/8	1/4	.294
*1236	1 1/8	7	2 1/16	1/4	.325
1236S	1 5/16	7	2 1/16	1/4	.313
**1238	1 3/16	7	2 1/16	1/4	.325
*1240	1 1/4	7	2 1/16	1/4	.319
1242	1 5/16	7 5/8	2 1/2	9/32	.475
*1244	1 3/8	7 5/8	2 1/2	9/32	.472
1246	1 7/16	7 7/8	2 1/2	9/32	.494
*1248	1 1/2	7 5/8	2 1/2	9/32	.463
1250	1 9/16	7 5/8	2 5/8	9/32	.500
1252	1 5/8	7 7/8	2 5/8	9/32	.513
1256	1 3/4	8 1/2	3 3/8	5/16	.750
1258	1 13/16	8 1/2	3 3/8	5/16	.738
1260	1 7/8	8 1/2	3 3/8	5/16	.725
1262	1 15/16	8 1/2	3 3/8	5/16	.725
1264	2	8 1/2	3 1/2	5/16	.769
1264S	2 9/16	8 1/2	3 1/2	5/16	.675
1266	2 1/16	8 1/2	3 1/2	5/16	.756
1268	2 3/8	8 1/2	3 1/2	5/16	.744
1272	2 1/4	8 1/2	3 1/2	5/16	.744
1272S	2 1/2	8 1/2	3 1/2	5/16	.681
1276	2 3/8	8 1/2	3 1/2	5/16	.713

Ref.: Fed. Spec. GGG-W-636a—Type 17—Class 3.

**Also used on caster adjustment on Ford, Lincoln, Mercury.

*Fits Sporlan Valves (See Refrigeration Section).

SINGLE HEAD EXTRA THIN SERVICE WRENCHES

These wrenches have especially thin heads for use in narrow openings. The following wrenches are exceptionally useful in refrigeration work. Wrench No. 1964 is used on the Superior packless valve. The thin heads allow access to close quarters, making these wrenches adaptable in aircraft service work.

Number	Opening	O.A. Length	Diameter Head	Thkns. Head	Weight Lbs.
1932	1	12 1/4	2 1/2	1/4	.694
1934	1 1/16	12 1/4	2 1/2	1/4	.656
1936	1 1/8	12 1/4	2 1/2	1/4	.644
1940	1 1/4	12 1/4	2 1/2	1/4	.625
1944	1 3/8	12 1/4	2 1/2	1/4	.625
1946	1 7/16	12 1/4	2 7/8	9/32	.788
1948	1 1/2	12 1/4	2 7/8	9/32	.756
1950	1 9/16	12 1/4	2 7/8	9/32	.738
1952	1 5/8	12 1/4	2 7/8	9/32	.725
1954	1 11/16	12 1/4	2 7/8	9/32	.731
1956	1 3/4	12 1/4	3 1/16	5/16	.994
1958	1 13/16	12 1/4	3 1/16	5/16	.988
1960	1 7/8	12 1/4	3 1/16	5/16	.956
1964	2	12 1/4	3 1/16	5/16	.950
1966	2 1/16	12 1/4	3 1/16	5/16	.963
1968	2 3/8	12 1/4	3 1/16	5/16	.925
1970	2 3/16	12 1/4	3 1/16	5/16	.925
1972	2 1/4	12 1/4	3 1/16	5/16	.925

Ref.: Fed. Spec. GGG-W-636a—Type 17—Class 2.



OPEN END WRENCHES

15° Double End Miniature, Tappet, Electrical, 90° Angle

OPEN END WRENCHES

Bonney open end wrenches are streamlined in every respect to provide the lightest, strongest wrench possible. Forged from the finest alloy steel with all openings accurately machined to close tolerances for solid fit. Each wrench is scientifically hardened and tempered for long, dependable service under constant use. Nickel chrome plated with polished heads.

OPEN END WRENCHES (15° Double End)

Number	Openings	O.A. Length	Head Diameter	Head Thkns.	Weight Lbs.
E810	1/4 & 5/16	4 1/4	9/16 & 11/16	5/32	.025
†E1011	5/16 & 11/32	4 3/4	1 1/16 & 13/16	3/16	.060
E1012	5/16 & 3/8	4 3/4	1 1/16 & 13/16	3/16	.060
E1214	3/8 & 7/16	5 1/4	1 3/16 & 15/16	7/32	.075
E1216	3/8 & 1/2	5 3/4	1 5/16 & 1 1/16	15/64	.113
E1416	7/16 & 1/2	5 3/4	1 5/16 & 1 1/16	15/64	.113
†E1418	7/16 & 9/16	6	1 5/16 & 1 9/16	1/4	.134
E1618	1/2 & 9/16	6 1/4	1 1/16 & 1 3/16	1/4	.147
E1820	9/16 & 5/8	7	1 3/16 & 1 5/16	17/64	.122
†E1925	19/32 & 25/32	8 3/16	1 1/4 & 1 3/8	21/64	.319
E2022	5/8 & 11/16	7 3/4	1 5/16 & 1 7/16	9/32	.263
E2024	5/8 & 3/4	8 3/16	1 1/4 & 1 5/8	21/64	.444
E2224	1 1/16 & 3/4	8 1/2	1 7/16 & 1 9/16	5/16	.325
E2426	3/4 & 13/16	9 1/4	1 9/16 & 1 11/16	11/32	.406
E2428	3/4 & 7/8	9 5/8	1 9/16 & 1 13/16	11/32	.488
E2628	13/16 & 7/8	10	1 11/16 & 1 13/16	23/64	.538
E2830	7/8 & 15/16	10 3/4	1 13/16 & 1 15/16	3/8	.625
E3032	15/16 & 1	11 1/2	1 15/16 & 2 1/16	13/32	.794
E3236	1 & 1 1/8	12 5/8	2 1/8 & 2 5/16	7/16	1.030
E3436	1 1/16 & 1 1/8	12 5/8	2 1/8 & 2 5/16	7/16	1.019
E3440	1 1/16 & 1 1/4	13 5/8	2 1/4 & 2 5/8	1/2	1.450
†E3640	1 1/8 & 1 1/4	13 5/8	2 1/4 & 2 5/8	1/2	1.450
†E4042	1 1/4 & 1 5/16	14 3/4	2 17/32 & 2 7/8	17/32	1.644
†E4044	1 1/4 & 1 3/8	14 3/4	2 17/32 & 2 7/8	17/32	1.828

Ref.: Fed. Spec. GGG-W-636a—Type 4—Engineer's Wrench, Double Head, Open End 15°.

†Available From Stock Until Inventory Depleted.

MINIATURE WRENCHES (15° Double End)

H10	3/16 & 7/32	2 1/2	25/64 & 29/64	7/64	.013
H12	1/4 & 9/32	3	33/64 & 37/64	5/32	.028
H14	5/16 & 11/32	3 3/4	41/64 & 23/32	3/16	.047
H16	3/8 & 7/16	4 3/32	25/32 & 57/64	1/32	.081
H18	13/32 & 15/32	4 3/32	25/32 & 57/64	7/32	.078

Ref.: Fed. Spec. GGG-W-636a—Type 6—Style D.

ELECTRICAL WRENCHES (15° and 60°)

Number	Openings	O.A. Length	Head Diameter	Head Thkns.	Weight Lbs.
E14	13/64 & 15/64	3	1/2 & 1/2	7/64	.016
E16	15/64 & 13/64	3	1/2 & 1/2	7/64	.019
E18	7/32 & 1/4	3	1/2 & 1/2	7/64	.019
E20	1/4 & 7/32	3	1/2 & 1/2	7/64	.016
E22	9/32 & 5/16	3 1/2	5/8 & 5/8	1/8	.028
E24	5/16 & 9/32	3 1/2	5/8 & 5/8	1/8	.028
E26	11/32 & 3/8	4	3/4 & 3/4	9/64	.041
E28	3/8 & 11/32	4	3/4 & 3/4	9/64	.044
E30	7/16 & 1/2	4 1/2	31/32 & 31/32	5/32	.072

Ref.: Fed. Spec. GGG-W-636a—Type 6—Class A.

TAPPET WRENCHES (15° Double End)

420A	7/16 & 1/2	9 1/2	1 3/16 & 1 1/4	5/32	.188
422	1/2 & 9/16	9 1/2	1 3/16 & 1 1/4	5/32	.184
424	5/8 & 11/16	9 1/2	1 7/16 & 1 1/2	3/16	.219
425	3/4 & 13/16	9 1/2	1 5/8 & 1 25/32	7/32	.359
426	3/4 & 7/8	9 1/2	1 5/8 & 1 25/32	7/32	.344

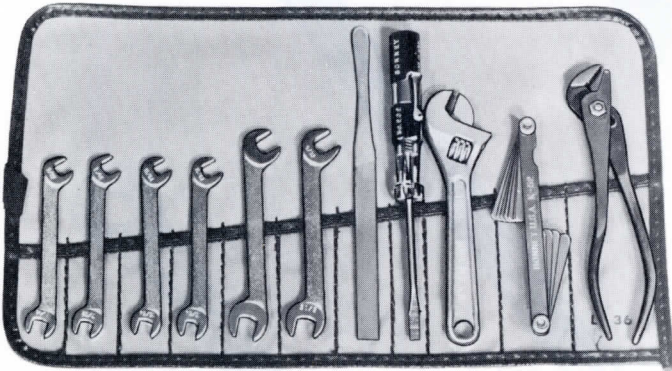
Ref.: Fed. Spec. GGG-W-636a—Type 10—Class 1.

OPEN END WRENCHES (90° Angle Heads)

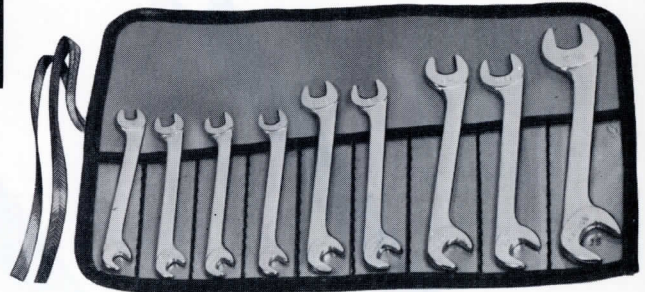
2723	3/8 & 7/16	4 1/2	1 5/16 & 1 5/32	7/32	.119
2725B	1/2 & 9/16	5 1/2	1 1/4 & 1 3/8	15/64	.181
2729	5/8 & 3/4	7 1/2	1 9/16 & 1 21/32	5/16	.409

NOTE: Ignition wrenches available on request.

OPEN END WRENCH SETS



N11R

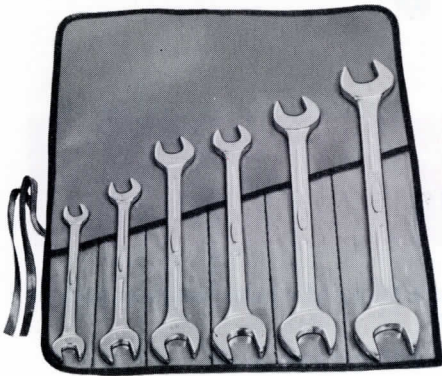


N24R

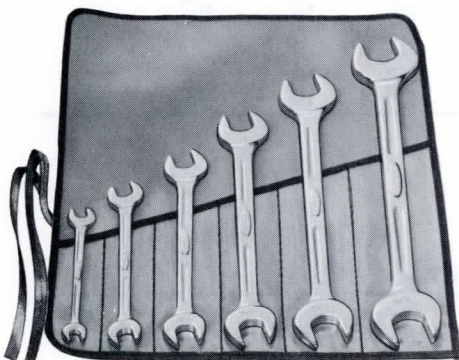


N20R

N45R



N46R



SET NO. N11R (11 Piece Electrical Ignition Service Set in Leatherette Roll LR36 — .625 lbs.)

Number	Description	
	15° End	60° End
E14	13/64	15/64
E16	15/64	13/64
E18	7/32	1/4
E20	1/4	7/32
E22	9/32	5/16
E24	5/16	9/32

Number	Description
B35	Ignition Plier
BW4	Adjust. End Wrench, 4"
E02	Neon Screw Driver
FIP-1	Point File
K52	Ignition Feeler Gauge

SET NO. N20R (5 Piece Miniature 15° Wrench Set in Leatherette Roll LR24 — .375 lbs.)

Number	Description Openings	
	H10	3/16 & 7/32
H12	1/4 & 9/32	
H14	5/16 & 11/32	

Number	Description Openings	
	H16	3/8 & 7/16
H18	13/32 & 15/32	

SET NO. N24R (9 Piece Open End Ignition Wrench Set in Leatherette Roll LR28 — .500 lbs.)

Number	Description	
	15° End	60° End
E14	13/64	15/64
E16	15/64	13/64
E18	7/32	1/4
E20	1/4	7/32
E22	9/32	5/16

Number	Description	
	15° End	60° End
E24	5/16	9/32
E26	11/32	3/8
E28	3/8	11/32
E30	7/16	1/2

SET NO. N45R (6 Piece 15° Open End Wrench Set in Leatherette Roll LR56 — 2.000 lbs.)

Number	Description Openings	
	E810	1/4 & 5/16
E1214	3/8 & 7/16	
E1618	1/2 & 9/16	

Number	Description Openings	
	E2022	5/8 & 11/16
E2426	3/4 & 13/16	
E2830	7/8 & 15/16	

SET NO. N46R (6 Piece Open 15° End Wrench Set in Leatherette Roll LR56 — 2.313 lbs.)

Number	Description Openings	
	E1012	5/16 & 3/8
E1416	7/16 & 1/2	
E1820	9/16 & 5/8	

Number	Description Openings	
	E2224	11/16 & 3/4
E2628	13/16 & 7/8	
E3032	15/16 & 1	



12-Point Regular

12-Point Long

6-Point Long

6-Point Regular

COMBINATION WRENCHES
Regular Length and Extra Long

The most versatile of all end wrenches, Bonney's combination box and open end wrenches are slim for maximum clearance yet strong and durable for rugged service. Forged from finest quality alloy steel, accurately machined and broached for close fit.

Furnished in both extra long and regular length in both 12 and 6 point openings.

Nickel chrome plated with polished heads.

REGULAR LENGTH

Number	Opening	O.A. Length	Head Diameter O.E.	Head Diameter B.E.	Weight Lbs.
*1158	1/4	3	19/32	7/16	.025
*1158A	9/32	3	19/32	7/16	.025
1159	5/16	3 3/4	25/32	1/2	.044
1159A	11/32	3 3/4	25/32	1/2	.044
1160	3/8	4 1/2	27/32	9/16	.063
1161	7/16	5 3/16	29/32	23/32	.081
1162	1/2	5 15/16	1 1/16	47/64	.128
1163	9/16	6 11/16	1 7/32	53/64	.181
1164	5/8	7 7/16	1 11/32	29/32	.264
1165	11/16	8 5/16	1 15/32	1	.338
1166	3/4	9 3/16	1 9/16	1 5/64	.406
1167	13/16	11 1/4	1 13/16	1 1/4	.675
1167A	7/8	10 3/4	1 11/16	1 11/64	.575
1168	15/16	12 5/16	1 15/16	1 11/32	.881
1170	1	13 5/16	2 1/32	1 7/16	1.038
1171	1 1/16	15	2 7/32	1 19/32	1.706
1172	1 1/8	15	2 7/32	1 19/32	1.694
1173	1 1/4	18	2 11/16	1 55/64	2.608
1174	1 5/16	18	2 11/16	1 55/64	2.675
1176	1 7/16	21 1/4	3 1/16	2 3/16	4.175
1178	1 1/2	21 1/4	3 1/16	2 3/16	4.000
1180	1 5/8	27	3 3/4	2 5/16	3.813

12-POINT EXTRA LONG SERIES

Number	Opening	O.A. Length	Head Diameter O.E.	Head Diameter B.E.	Weight Lbs.
1112	3/8	6 17/32	2 7/32	9/16	.078
1114	7/16	7 3/8	2 9/32	2 1/32	.119
1116	1/2	8 7/32	1 1/16	47/64	.163
1118	9/16	9 1/16	1 7/32	63/64	.244
1120	5/8	9 29/32	1 11/32	29/32	.316
1122	11/16	10 3/4	1 15/32	1	.419
1124	3/4	11 19/32	1 9/16	1 5/64	.519

6-POINT EXTRA LONG SERIES

Number	Opening	O.A. Length	Head Diameter O.E.	Head Diameter B.E.	Weight Lbs.
1112H	3/8	6 17/32	2 7/32	9/16	.078
1114H	7/16	7 3/8	2 9/32	2 1/32	.119
1116H	1/2	8 7/32	1 1/16	47/64	.163
1118H	9/16	9 1/16	1 7/32	53/64	.244
1120H	5/8	9 29/32	1 11/32	29/32	.319
1122H	11/16	10 3/4	1 15/32	1	.419
1124H	3/4	11 19/32	1 9/16	1 5/64	.500

Ref.: Fed. Spec. GGG-W-636A—Type 3.
 *Single Hex (6-Point) Openings; All Others 12-Point Openings.

Ref.: Fed. Spec. GGG-W-636A—Type 3.

COMBINATION WRENCH SETS



N64R

SET NO. N64R (7 Piece Extra Long Combination Wrench Set, 12-Point, in Leatherette Roll LR80 — .222 lbs.)

Number	Opening	Number	Opening
1112	3/8	1120	5/8
1114	7/16	1122	11/16
1116	1/2	1124	3/4
1118	9/16		



N65R

SET NO. N65R (7 Piece Extra Long Combination Wrench Set, 6-Point, in Leatherette Roll LR80 — .242 lbs.)

Number	Opening	Number	Opening
1112H	3/8	1120H	5/8
1114H	7/16	1122H	11/16
1116H	1/2	1124H	3/4
1118H	9/16		

SET NO. N68R (8 Piece Combination Wrench Set, 12-Point, in Leatherette Roll LR84 — .250 lbs.)

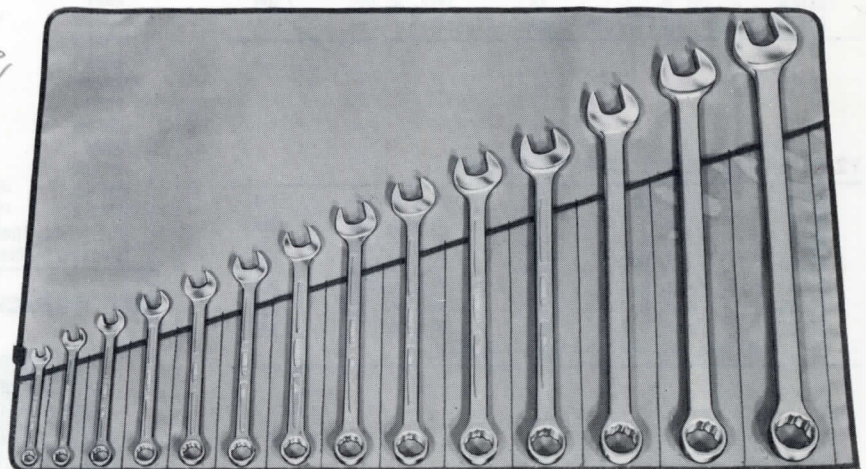
Number	Opening	Number	Opening
1160	3/8	1164	5/8
1161	7/16	1165	11/16
1162	1/2	1166	3/4
1163	9/16	1167	7/8

SET NO. N102R (11 Piece Combination Wrench Set, 12-Point, in Leatherette Roll LR102 — 2.750 lbs.)

Number	Opening	Number	Opening
1160	3/8	1166	3/4
1161	7/16	1167	13/16
1162	1/2	1167A	7/8
1163	9/16	1168	15/16
1164	5/8	1170	1
1165	11/16		

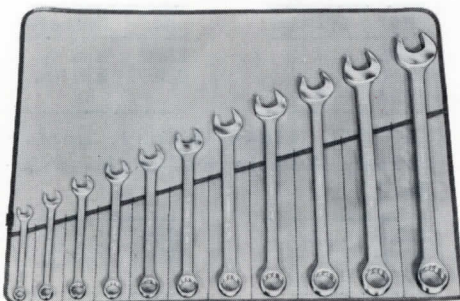


N68R



SET NO. N103R (14 Piece Combination Wrench Set, 12-Point, in Leatherette Roll LR103 — 6.000 lbs.)

Number	Opening	Number	Opening
1160	3/8	1167	13/16
1161	7/16	1167A	7/8
1162	1/2	1168	15/16
1163	9/16	1170	1
1164	5/8	1171	1 1/16
1165	11/16	1172	1 1/8
1166	3/4	1173	1 1/4



N102R



BOX TYPE WRENCHES
Double Offset and 15° Angle

Bonney provides a box type wrench for every purpose. Drop forged from fine grain alloy steel with thin walls for clearance in close quarters. Hardened and tempered for long, dependable service and maximum strength.

Nickel chrome plated with polished heads.

12-POINT DOUBLE OFFSET LONG

Number	Openings	O.A. Length	Head Diameter	Weight Lbs.
2804L	3/8 & 7/16	8 1/2	9/16 & 21/32	.181
†2804C	7/16 & 1/2	8 3/4	21/32 & 47/64	.244
2805L	1/2 & 9/16	9	47/64 & 55/64	.300
2806L	9/16 & 5/8	9 1/2	53/64 & 29/32	.369
2807	5/8 & 3/4	11	29/32 & 15/64	.531
2807A	5/8 & 11/16	11	29/32 & 15/64	.556
†2808B	11/16 & 25/32	11 1/2	1 & 1 1/8	.669
2808	3/4 & 7/8	11 1/2	1 5/64 & 1 1/4	.775
2808F	3/4 & 13/16	11 1/2	1 5/64 & 1 11/64	.713
†2809C	13/16 & 7/8	12 1/2	1 11/64 & 1 1/4	.744
2809	7/8 & 15/16	12 1/2	1 1/4 & 1 11/32	.900
†2810C	7/8 & 1	13 1/2	1 11/32 & 1 7/16	1.106
2810	15/16 & 1	13 1/2	1 11/64 & 1 7/16	1.100
2811	1 & 1 1/8	14 1/2	1 7/16 & 1 19/32	1.331
2812B	1 1/16 & 1 1/4	16 1/2	1 5/8 & 1 55/64	2.000
2812D	1 1/16 & 1 1/8	16 1/2	1 5/8 & 1 55/64	2.044
†2812	1 1/4 & 1 3/8	18	1 49/64 & 2 3/32	2.519
†2812A	1 1/4 & 1 7/16	18	1 49/64 & 2 3/32	2.500

Ref.: Fed. Spec. GGG-W-636a—Type 1—Class 2.

12-POINT DOUBLE OFFSET SHORT

Number	Openings	O.A. Length	Head Diameter	Weight Lbs.
2803	5/16 & 3/8	4 1/2	15/32 & 9/16	.050
2804	3/8 & 7/16	4 3/4	9/16 & 21/32	.069
2805	1/2 & 9/16	5 3/8	47/64 & 53/64	.125
2805A	7/16 & 1/2	5 1/8	21/32 & 47/64	.094
2806	9/16 & 5/8	5 3/4	53/64 & 29/32	.150
†2806B	5/8 & 3/4	6 3/16	29/32 & 15/64	.253
†2806C	5/8 & 11/16	6	29/32 & 1	.191

Ref.: Fed. Spec. GGG-W-636a—Type 1—Class 2.

6 & 12-POINT MINIATURE DOUBLE OFFSET

Number	Openings	O.A. Length	Head Diameter	Weight Lbs.
*E40	3/16 & 13/64	2 7/8	19/64 & 21/64	.009
E40A	3/16 & 7/32	2 7/8	19/64 & 21/64	.009
*E42	7/32 & 15/64	3 3/8	11/32 & 3/8	.019
E44	1/4 & 9/32	3 3/8	25/64 & 7/16	.031
E46	5/16 & 11/32	3 3/4	15/32 & 35/64	.041

Ref.: Fed. Spec. GGG-W-636a—Type 1—Class 2—Style B.
*Denotes 6-Point — Others 12-Point.

6 & 12-POINT 15° ANGLE SHORT

Number	Openings	O.A. Length	Head Diameter	Weight Lbs.
2885	5/16 & 3/8	4	15/32 & 9/16	.038
*2885H	5/16 & 3/8	4	15/32 & 9/16	.044
2886	3/8 & 7/16	4 1/2	9/16 & 21/32	.056
*2886H	3/8 & 7/16	4 1/2	9/16 & 21/32	.056
2887	7/16 & 1/2	5	21/32 & 47/64	.091
*2887H	7/16 & 1/2	5	21/32 & 47/64	.097
2888	1/2 & 9/16	5 1/2	47/64 & 53/64	.119
*2888H	1/2 & 9/16	5 1/2	47/64 & 53/64	.122
2889	9/16 & 5/8	6	53/64 & 29/32	.153
†2889H	9/16 & 5/8	6	53/64 & 29/32	.163

Ref.: Fed. Spec. GGG-W-636a—Type 1—Class 1.
*Denotes 6-Point — Others 12-Point.

6 & 12-POINT 15° ANGLE LONG

Number	Openings	O.A. Length	Head Diameter	Weight Lbs.
2890	3/8 & 7/16	7 5/8	9/16 & 21/32	.125
*2890H	3/8 & 7/16	7 5/8	9/16 & 21/32	.128
2891	1/2 & 9/16	8 5/8	47/64 & 55/64	.303
†2891C	9/16 & 5/8	9 1/4	53/64 & 29/32	.322
*2891H	1/2 & 9/16	8 5/8	47/64 & 21/32	.303
2892	5/8 & 11/16	9 5/8	29/32 & 15/64	.403
†2892H	5/8 & 11/16	9 5/8	29/32 & 15/64	.406
2893	3/4 & 13/16	11	1 5/64 & 1 1/4	.569
2893B	3/4 & 7/8	11	1 5/64 & 1 1/4	.563
2894	7/8 & 15/16	13 1/4	1 11/32 & 1 7/16	.913
2894A	7/8 & 1	13 1/4	1 11/32 & 1 7/16	.881
†2894B	15/16 & 1	13 3/4	1 11/32 & 1 7/16	.913
†2895B	15/16 & 1 1/16	14 1/2	1 11/32 & 1 1/2	1.100

Ref.: Fed. Spec. GGG-W-636a—Type 1—Class 1—Style A.
*Denotes 6-Point — Others 12-Point.

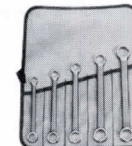
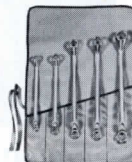
BOX WRENCH SETS

SET NO. N93R (12-Point, Double Offset in Roll LR97 - 3.125 lbs.)

No.	Openings	No.	Openings
2804L	3/8 & 7/16	2808F	3/4 & 13/16
2805L	1/2 & 9/16	2809	7/8 & 15/16
2807A	5/8 & 11/16		

SET NO. N104R (6-Point, Single Offset, Short in Roll-LR70 - .625 lbs.)

Number	Openings	Number	Openings
2885H	5/16 & 3/8	2888H	1/2 & 9/16
2886H	3/8 & 7/16	2889H	9/16 & 5/8
2887H	7/16 & 1/2		



†Available From Stock Until Inventory depleted.



FLARE NUT WRENCHES, RATCHETING BOX, SPINNER, HEX KEYS

FLARE NUT WRENCHES

Designed for tube fitting applications such as vacuum, hydraulic, refrigeration, and fuel lines used on automotive, truck, road machinery, and industrial equipment. Each end is extra thick to avoid damage to soft, metal fittings.

6-POINT—OFFSET PATTERN Each end offset at 15°

New Number	Old Number	Openings	O.A. Length	Slot	Head Thickness	Weight Lbs.
★EF1216H	★2612H	3/8-1/2	4 3/4	13/64-21/64	9/32-5/16	.109
★EF1418H	★2618H	7/16-9/16	5 1/16	17/64-25/64	5/16-11/32	.138
★EF2022H	★2630H	5/8-11/16	6	15/32-17/32	3/8-13/32	.213

12-POINT—OFFSET PATTERN Each end offset at 15°

★EF1216	★2612	3/8-1/2	4 3/4	13/64-21/64	9/32-5/16	.109
★EF1418	★2618	7/16-9/16	5 1/16	17/64-25/64	5/16-11/32	.138
★EF2022	★2630	5/8-11/16	6	15/32-17/32	3/8-13/32	.213

12-POINT STRAIGHT PATTERN

Number	Openings	O.A. Length	Slot	Head Thickness	Weight Lbs.
★RF54A	3/4 & 7/8	8	19/32 & 5/8	15/32 & 5/8	.488
★RF54	3/4 & 1	8	19/32 & 13/16	15/32 & 5/8	.456
★RF55A	7/8 & 1	9 1/2	5/8 & 13/16	17/32 & 3/4	.856
★RF55	7/8 & 1 1/8	9 1/2	5/8 & 25/32	17/32 & 3/4	.788

COMBINATION FLARE AND RATCHETING OPEN END WRENCH

A new development in flare nut wrenches is the combination of a regular, 15° offset, 6-point box type flare nut opening at one end and a ratcheting 15° open end at the other end; both ends being exceptionally thick to minimize mutilation of fitting—box end for initial loosening or final tightening and open end for quick, easy ratcheting on and off.

★EF4012	3/8	5 1/4	13/64	23/64	.113
★EF4014	7/16	5 1/2	17/64	23/64	.132
★EF4016	1/2	6	21/64	23/64	.163
★EF4018	9/16	6 3/8	25/64	25/64	.219

RATCHETING BOX WRENCHES

Invaluable on long studs as well as small confined areas where sockets cannot enter. Laminated construction for greater strength, polished chrome finish.

Number	Openings	O.A. Length	Head Thickness	Weight Lbs.
*RB810	1/4 & 5/16	4 1/4	3/8	.110
*RB1214	3/8 & 7/16	5 1/2	3/8	.172
*RB1618	1/2 & 9/16	6 3/4	1/2	.360
RB2022	5/8 & 11/16	8	1/2	.633
RB2024	5/8 & 3/4	8	1/2	.618
RB2226	11/16 & 13/16	9 1/4	1/2	.726
RB2428	3/4 & 7/8	9 1/4	1/2	.729

*Single Hex (6-Point) Openings.

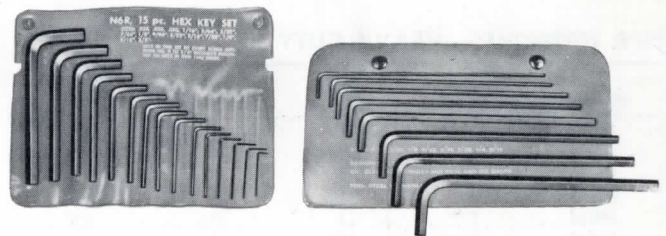
SPINNER WRENCHES

This series of wrenches has a plastic screw driver handle and incorporates socket ends ranging from 3/16 inch to 1/2 inch openings. Very convenient for tightening and loosening nuts and bolts with great speed.

Number	Opening	O.A. Length	Weight Lbs.
CH06	3/16	6	.147
CH08	1/4	6	.131
CH10	5/16	6	.156
CH11	11/32	6 1/8	.169
CH12	3/8	6 1/8	.153
CH14	7/16	6 1/8	.216
CH16	1/2	6 1/8	.213

HEX KEY WRENCHES

Precision manufactured for accurate fit on hex socket head screws—regular and long style.



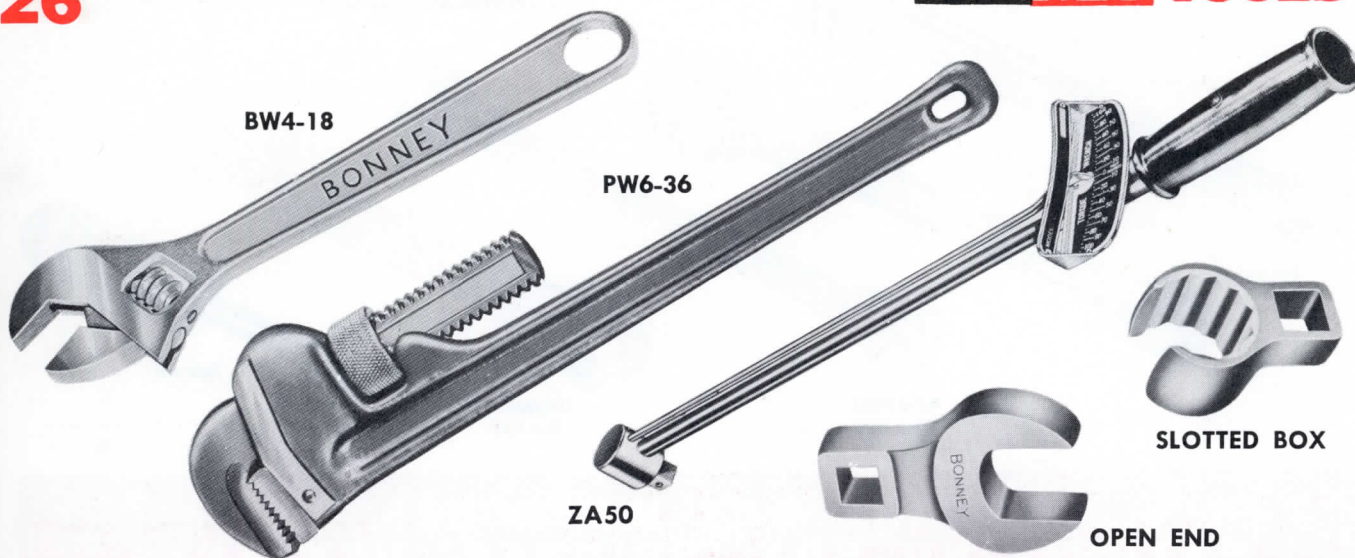
Numbers		Hex Size	Numbers		Hex Size
Regular	Long		Regular	Long	
AW	—	.028	AW4 1/2	—	9/64
AW0	—	.035	AW5	AWL5	5/32
AW1	—	.050	AW6	AWL6	3/16
AW2	—	1/16	AW7	AWL7	7/32
AW2 1/2	AWL2 1/2	5/64	AW8	AWL8	1/4
AW3	AWL3	3/32	AW10	AWL10	5/16
AW3 1/2	—	7/64	AW12	—	3/8
AW4	AWL4	1/8			

SETS: Furnished in red leatherette pouch with sizes printed in white.

Set No. N6R, 15 Pieces, Regular, Sizes .028 (AW) through 3/8 (AW12), .625 lbs.

Set No. N7R, 8 Pieces, Long, Sizes 5/64 (AWL2-1/2) through 5/16 (AWL10), .562 lbs.

NOTE: Set No. N6R fits all screws of the new 1960 series socket screws (and set screws) in sizes No. 0 through 3/8 inch.



SPECIAL TYPE WRENCHES

Adjustable, Pipe, Torque Wrenches and Crowfoot Attachments

ADJUSTABLE OPEN END WRENCHES

Forged from alloy steel, accurately machined with jaws and frame matched in production for a perfect fit and lifetime of quick, no-bind action under heavy-duty usage.

Finished in nickel chrome plate with heads brightly polished.

Number	Maximum Opening	O.A. Length	Head Diameter	Weight Lbs.
BW4	.510	4¼	1¾/16	.119
BW6	.760	6¾	1 ¹³ / ₁₆	.281
BW8	.947	8¾	2	.419
BW10	1.135	10¾	2 ⁹ / ₁₆	.813
BW12	1.322	12¼	3	1.350
BW15	1.698	15 ⁵ / ₁₆	4 ⁵ / ₃₂	1.738
BW18	2.062	18½	4¾	2.356

Ref.: Fed. Spec. GGG-W-631a—Type 1.

PIPE WRENCHES—HEAVY DUTY

Number	Maximum Pipe Size	O.A. Length	Head Diameter	Weight Lbs.
PW6	¾	5½	1 ⁹ / ₁₆	0.5
PW8	1	7¾	2 ¹ / ₈	1.0
PW10	1½	9¾	2½	2.0
PW12	2	11½	3	3.0
PW14	2	13	3 ¹ / ₈	3.5
PW18	2½	16½	3¾	5.5
PW24	3	22¼	4¼	9.7
PW36	4½	31	5	17.0

Ref.: Fed. Spec. GGG-W-651b—Type 2—Class A.

TORQUE WRENCHES

Number	Torque Capacity Inch Lbs.	Graduations in Steps of Inch Lbs.	Drive Square Inches	Lever Arm Inches	O.A. Length Inches	Weight Lbs.
DOUBLE ROUND BEAM						
TDR50-I	0 - 50	2½	¾	8 ¹⁷ / ₃₂	9 ⁹ / ₁₆	.750
TDR100-I	0 - 100	5	¾	9 ⁹ / ₁₆	10 ¹ / ₈	.750
TDR200-I	0 - 200	10	¾	10 ¹ / ₈	11 ¹ / ₁₆	.750
TDR300-I	0 - 300	12½	¾	12 ⁹ / ₁₆	14 ⁷ / ₈	1.250
SINGLE ROUND BEAM						
	Foot Lbs.	Foot Lbs.				
ZA50	0 - 50	2½	½	13 ⁹ / ₁₆	15 ¹¹ / ₁₆	1.250
ZA100	0 - 100	5	½	16 ¹¹ / ₁₆	19 ³ / ₁₆	2.000
ZA150	0 - 150	5	½	16 ¹¹ / ₁₆	19 ³ / ₁₆	2.125
ZA200	0 - 200	10	½	19¼	21¾	2.500

Note: See Price List for Complete Torque Wrench Listing.

CROWFOOT ATTACHMENTS

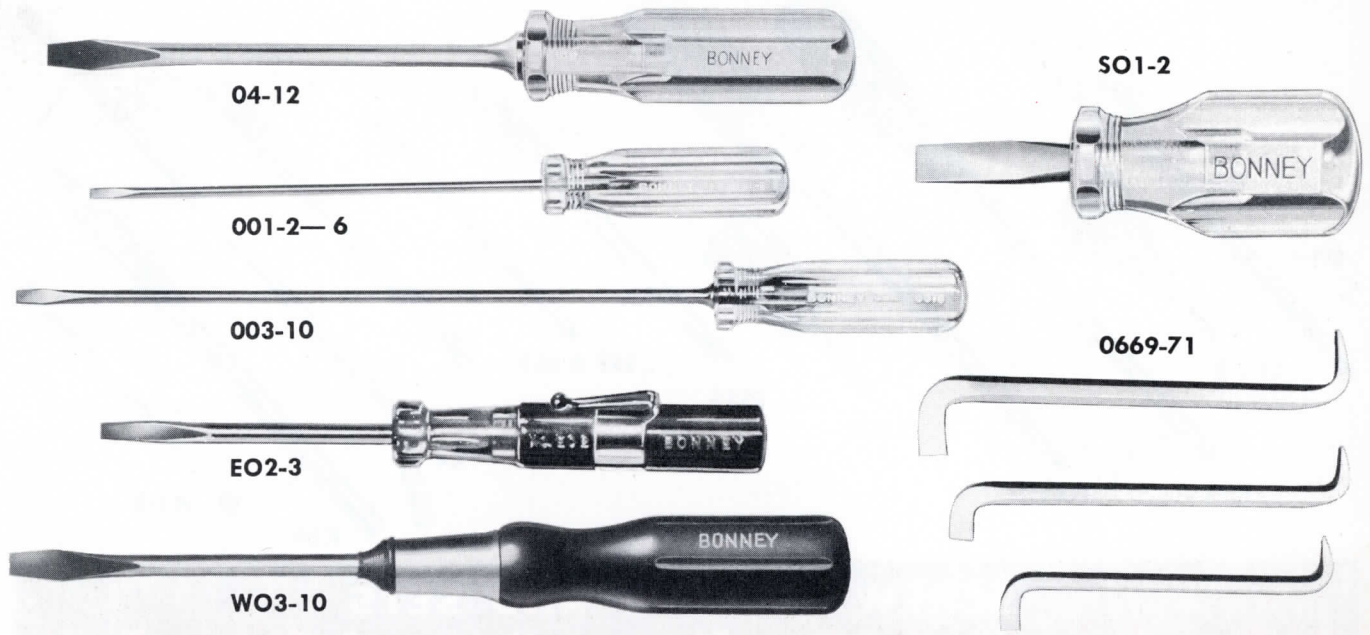
Here shown is a quick reference of all Bonney crowfoot attachments. For detailed information see Pages 3, 7 & 11.

OPEN END TYPE

Number	Opening	Square Drive
★TC12	¾	¾
★TC14	7/16	¾
★TC16	½	¾
★TC18	9/16	¾
★TC20	5/8	¾
★TC22	11/16	¾
★TC24	¾	¾
★TC26	13/16	¾
★TC28	7/8	¾
★MTC14	14MM	¾
★AC30	15/16	½
★AC32	1	½
★AC34	1 1/16	½
★AC36	1 1/8	½
★AC38	1 3/16	½
★AC40	1 ¼	½
★AC42	1 5/16	½
★AC44	1 ¾	½
★AC46	1 7/16	½
★AC48	1 ½	½
★AC50	1 9/16	½
★AC52	1 5/8	½
★AC54	1 11/16	½
★AC56	1 ¾	½
★AC58	1 13/16	½
★AC60	1 7/8	½
★AC62	1 5/16	½
★AC64	2	½
★AC66	2 1/16	½
★AC68	2 1/8	½
★AC70	2 3/16	½
★AC72	2 ¼	½
★AC74	2 5/16	½
★AC76	2 ¾	½
★AC78	2 7/16	½
★AC80	2 ½	½
★AC82	2 9/16	½
★AC84	2 5/8	½
★AC86	2 11/16	½
★AC88	2 ¾	½
★AC90	2 13/16	½
★AC92	2 7/8	½
★AC94	2 15/16	½
★AC96	3	½

SLOTTED BOX TYPE

Number	Opening	Square Drive
★VF6	3/16	¼
★VF7	7/32	¼
★VF8	¼	¼
★VF9	9/32	¼
★VF10	5/16	¼
★VF11	11/32	¼
★VF12	¾	¼
★VF14	7/16	¼
★VF16	½	¼
★VF18	9/16	¼
★TF20	5/8	¾
★TF22	11/16	¾
★TF24	¾	¾
★TF26	13/16	¾
★TF28	7/8	¾
★TF30	15/16	¾
★TF32	1	¾
★TF34	1 1/16	¾
★AF36	1 1/8	½
★AF38	1 3/16	½
★AF40	1 ¼	½
★AF42	1 5/16	½
★AF44	1 ¾	½
★AF46	1 7/16	½
★AF48	1 ½	½
★AF50	1 9/16	½
★AF52	1 5/8	½
★AF54	1 11/16	½
★AF56	1 ¾	½
★AF58	1 13/16	½
★AF60	1 7/8	½
★AF62	1 15/16	½
★AF64	2	½



SCREW DRIVERS
Standard Tip, Thin Blade, Electrical, Spark Test, Stubby & Offset

Bonney screw drivers are available in either tough, shock-proof plastic or turned hardwood handles. All handles are oversized and shaped for comfortable, maximum torque

STANDARD TIP, PLASTIC HANDLE

This popular series has a round, one piece forged blade fitted into a man-sized handle. An upset bolster insures extra tight fit and prevents forcing blade into handle.

Number	Blade Length	Tip Width	Shank Diameter	O.A. Length	Weight Lbs.
★04	4	1/4	1/4	7 3/4	.191
★06	6	5/16	5/16	10 1/2	.322
★08	8	3/8	3/8	13	.500
★010	10	7/16	7/16	15	.681
★012	12	3/8	3/8	17 1/2	.831

Ref.: Fed. Spec. GGG-S-121c—Type 1—Class 5—Style 1.

THIN BLADE—ELECTRICAL, RADIO, PLASTIC HANDLE

★001-2	2	1/8	1/8	4 5/16	.025
★001-3	3	1/8	1/8	6	.028
★001-5	5	1/8	1/8	6	.041
★001-6	6	1/8	1/8	9	.044

Ref.: Fed. Spec. GGG-S-121c—Type 1—Class 8—Style 2.

Note: No. 001-2 has pocket clip.

ELECTRICAL—RADIO, CABINET, PLASTIC HANDLE

Round blade with bolster.

★003	3	3/16	3/16	6 3/16	.094
★006	6	3/16	3/16	9 3/8	.138
★0010	10	3/16	3/16	13 3/8	.166

Ref.: Fed. Spec. GGG-S-121c—Type 1—Class 1—Design A—Style 2.

SPARK TEST

For testing plugs and high frequency circuits. Shockproof plastic handle has neon tube—indicates by brightness of flash condition of circuit in plugs.

No. E02 fitted with pocket clip.

Replacement neon tubes, No. E03B, available.

★E02	2 1/4	1/8	3/32	5 1/4	.062
★E03	3 3/8	3/16	5/32	6 5/8	.106

grip. Blades are made from high alloy steel, accurately ground and tempered for maximum strength. Polished full length.

STANDARD TIP, STUBBY, PLASTIC HANDLE

Number	Blade Length	Tip Width	Shank Diameter	O.A. Length	Weight Lbs.
SO1	1 3/4	1/4	1/4	3 3/4	.116
SO2	1	1/4	7/32	2 3/4	.050

Ref.: Fed. Spec. GGG-S-121c—Type 1—Class 3.

HEAVY-DUTY, STANDARD TIP, Square Blade, Plastic Handle

High alloy steel, forged blade, carefully tempered for heavy-duty service. Shockproof, comfort grip plastic handle fitted to forged bolster to prevent driving blade through handle.

★SO4	4	5/16	7/32	7 3/4	.213
★SO6	6	3/8	5/16	10 1/4	.378
★SO8	8	7/16	3/8	12 3/4	.569
★SO12	12	1/2	3/8	17 1/2	.800

Ref.: Fed. Spec. GGG-S-121c—Type 1—Class 5—Style 1—Design B.

STANDARD TIP, Round Blade, Bolster Type, Wood Handle

★W03	3	1/4	7/32	7 1/2	.153
★W04	3 3/4	1/4	1/4	9	.194
★W06	5 1/16	9/32	5/16	11 7/8	.331
★W08	8	3/8	3/8	14 5/16	.525
★W010	10	3/8	3/8	16 5/16	.588

Fed. Spec.: GGG-S-121c—Type 1—Class 5—Style 2—Design A.

OFFSET

For close quarter work, these offset screw drivers are excellent where obstructions prevent use of standard screw drivers.

Number	O.A. Length	Tip Width	Weight Lbs.
★0669	4 7/8	1/4	.063
★0670	5 3/8	5/16	.125
★0671	5 7/8	3/8	.250



SCREW DRIVERS AND SETS
Phillips, Clutch Head, Screw Starters, Holding & Pick-up Tools

PHILLIPS TYPE, PLASTIC HANDLE

Blades of forged, heat tempered alloy steel—shockproof, comfort grip plastic handles.

Number	Phillips Bit	Blade Length	Blade Diameter	O.A. Length	Weight Lbs.
★CP1	#1	3	3/16	6	.063
★CP2	#2	4	1/4	7 3/4	.125
★CP3	#3	6	5/16	10 1/4	.375
★CP4	#4	8	3/8	12 1/2	.500

Fed. Spec.: GGG-S-121c—Type 6—Class 1—Style 1.

PHILLIPS TYPE, WOOD HANDLE

★SP1	#1	1	3/16	2 7/8	.044
★SP2	#2	1 3/8	1/4	3 3/8	.088
★WP1	#1	3	3/16	6 1/4	.075
★WP2	#2	4	1/4	8 3/4	.141
★WP3	#3	6	5/16	11	.294
★WP4	#4	8	3/8	14 1/2	.519

Ref.: Fed. Spec. GGG-S-121c—Type 6—Class 1—Style 2.

CLUTCH HEAD, PLASTIC HANDLE

This CL series is of the popular butterfly design (Type G) for clutch head screws.

Number	Bit Size	Blade Length	Shank Diameter	O.A. Length	Weight Lbs.
★CL3	5/32	4	1/4	7 1/2	.156
★CL5	1/4	6	5/16	10 1/4	.313
★CL6	9/32	6 3/8	5/16	10 3/4	.306
★CL7	5/16	6	3/8	10 7/8	.450
★CL13	5/32	1 3/4	1/4	3 3/8	.128
★CL15	1/4	1 3/4	1/4	3 3/8	.125

Set No. CL (5 Pieces Packed in Cardboard Container—1.500 lbs.) consisting of Clutch Heads No. CL3, CL5, CL7, CL13, CL15.

Set No. CP (4 Pieces Packed in Cardboard Container—1.250 lbs.) consisting of Phillips No. CP1, CP2, CP3, CP4.

Set No. WO5 (5 Pieces Packed in Cardboard Container—2.250 lbs.) consisting of Standard Wood Handle Screw Drivers No. WO3, WO4, WO6, WO8, WO10.

Set No. 0672 (3 Pieces Packed in Cardboard Container—.470 lbs.) consisting of Offsets No. 0669, 0670, 0671.

SCREW STARTERS

These tools provide a positive gripping for starting screws in hard to get at places. The starters for slothead screws feature a spring locking blade while those for the Phillips Type have a magnet head which holds the screw in place.

SCREW STARTERS FOR SLOTHEAD SCREWS

Number	O.A. Length	Type Handle	Weight Lbs.
SS25	2 1/2	Aluminum	.018
SS27	5	Aluminum	.038
SS29	9	Aluminum	.062
SS31	15	Aluminum	.109
SSN6	6	Nylon	.031
SSN9	9	Nylon	.038

SCREW STARTERS FOR PHILLIPS HEAD SCREWS

SS3	3 1/4	Aluminum	.031
SS6	6 1/4	Aluminum	.056

HANDY HOLDING TOOLS

These mechanical fingers are ideal for picking up objects that are dropped in tight places and also used for inserting, starting, and removing screws in hard to get at places.

Number	Reach	O.A. Length	Weight (Lbs.)
K4	4	6 3/4	.113
K6	6	8 3/4	.144
K8	8	10 3/4	.175
KF	12	14 3/4	.238

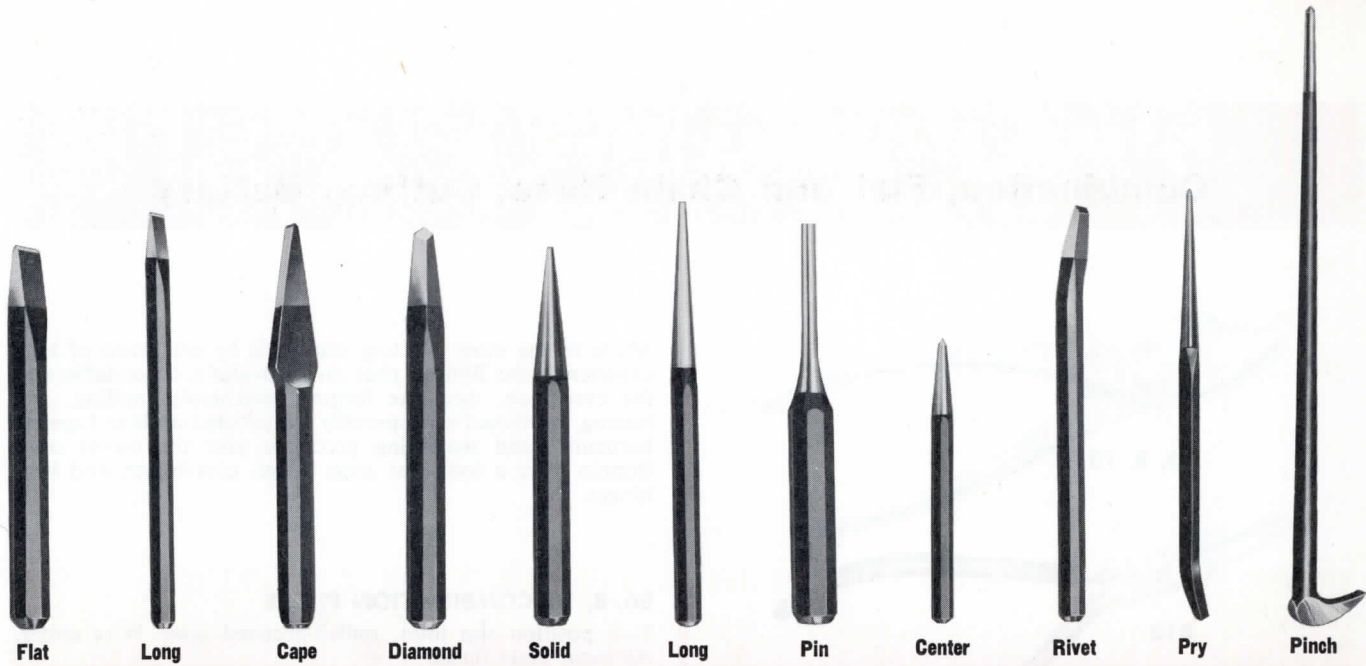
K26 POCKET MAGNETIC PICK-UP TOOL

The extra strong magnet in this tool will hold up to 3/4 of a pound. This tool is of standard pencil length. Weight .063 lbs.

MAGNETIC PICK-UP TOOLS

Extremely useful for extracting metal objects from tight places where a straight tool will not reach. The larger tool, K2, has a telescope type extension and will give extra length up to 27 inches when needed.

Number	O.A. Length	Weight (Lbs.)
K1	9	.091
K2	17 to 27	.416



CHISELS, PUNCHES AND SETS
Expertly Forged and Heat Treated for Uniform Hardness

Bonney chisels and punches are forged of hexagon special alloy steel and carefully heat treated to give maximum strength and durability. The bits are hard enough to work on any untempered metal and still soft enough to be re-sharpened with a file.

Because it is difficult to dress and maintain cutting edges, points, and heads of plated tools, Bonney chisels and punches are finished in bright blue enamel with full polished blades, heads, and edges.

FLAT COLD CHISELS

Number	Cut	Stock	O.A. Length	Weight Lbs.
C1N	1/4	1/4	4 1/4	.125
C1	5/16	5/16	4 1/2	.104
C2N	3/8	5/16	5	.250
C2A	1/2	7/16	6	.375
C3	5/8	1/2	6	.500
C4	3/4	5/8	7	.750
C5	7/8	3/4	7 1/2	1.000
C6	1	7/8	8	1.500

EXTRA LONG FLAT COLD CHISELS

C3L	5/8	1/2	12	.875
C4L	3/4	5/8	12	1.250
C6L	1	7/8	12	2.250

CAPE CHISELS

★C12	1/4	3/8	5	.250
★C13	3/8	5/8	6 1/2	.625

DIAMOND POINT CHISELS

C15	1/4	3/8	5 1/2	.250
C16N	3/8	5/8	6 1/2	.625

LONG TAPER SOLID PUNCH

Number	Point	Stock	O.A. Length	Weight Lbs.
C24N	3/16	1/2	6	.375

LONG TAPER DRIFT PUNCH

★C25	5/32	3/8	8	.375
★C26	3/16	1/2	9	.500
C27N	1/4	5/8	12	.875

PIN PUNCH

Number	Point	Stock	O.A. Length	Weight Lbs.
★C28	1/8	3/8	5 1/2	.250
★C29	3/16	3/8	6	.250
★C30	1/4	1/2	6	.375

PRICK PUNCH

C32	—	3/8	5	.250
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CENTER PUNCH

C34	—	3/8	5	.250
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RIVET BUSTER

Number	Cut	Stock	O.A. Length	Weight Lbs.
C36	5/8	3/4	12	1.750

JIMMY PRY BAR

C38	3/4	5/8	16	1.375
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ROLLING HEAD BAR

Specially designed for close quarter work with tapered end for aligning work. Finished in nickel chrome plate—head and end polished.

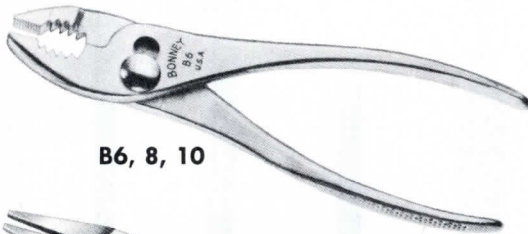
C39	—	9/16	15 1/4	1.125
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SET No. C45R (5 Pieces Packed in Leatherette Roll LR70—3.500 lbs.) consisting of Chisels No. C2N, C3, C4, C5, C6.

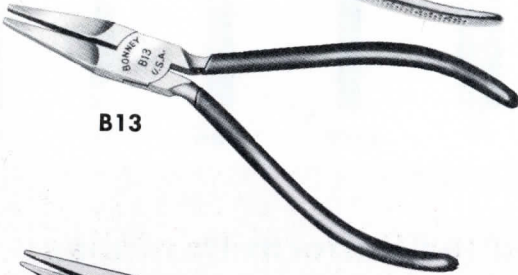
SET No. C46R (13 Pieces Packed in Leatherette Roll LR96—5.500 lbs.) consisting of Chisels and Punches No. C2N, C3, C4, C5, C6, C12, C13, C15, C16N, C28, C29, C30, C34.

PLIERS—ALL TYPES . . .

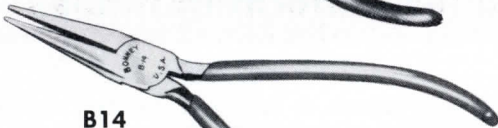
Combination, Flat and Chain Nose, Cutting, Battery



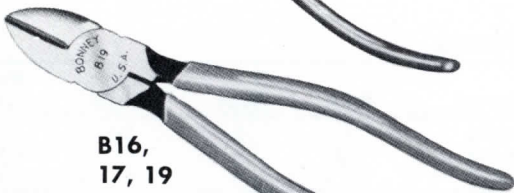
B6, 8, 10



B13



B14

B16,
17, 19

B18



B20

Made to the most exacting standards by craftsmen of long experience, the Bonney plier line provides a dependable tool for every job. Accurate forging, machining, milling, and honing, combined with specially job selected steels and special hardening and tempering processes, give the owner of a Bonney plier a tool that grips better, cuts better, and lasts longer.

B6, 8, 10 COMBINATION PLIERS

Two position slip joint, milled-grooved jaws. Wire cutter. All satin plate finish.

Number	O.A. Length	Weight (Lbs.)
B6	6	.375
B8	8	.640
B10	10	.984

Ref.: Fed. Spec. GGG-P-471a—Type F—Class 1—Style 1.

B13 FLAT NOSE PLIER (No Cutters)

Flat smooth jaws. Inside length: 1 3/32 inches. Width at point: 5/32 inch. O.A. Length: 4 1/2 inches. Weight: .109 lbs. Vinyl grip handle.

Fed. Spec.: GGG-P-471a, Type H, Class 1, Style 2.

B14 CHAIN NOSE PLIER (No Cutters)

Slender, smooth jaws. Inside length: 1 3/32 inches tapering to 1/32 inch point. O.A. Length: 4 1/2 inches. Weight: .203 lbs. Vinyl grip handle.

Fed. Spec.: GGG-P-471a, Type H, Class 1, Style 2.

B16, 17, 19 DIAGONAL CUTTING PLIERS

Forged from fine grain tool steel. Individually matched jaws carefully hardened and tempered for cutting accuracy. Vinyl grip handles.

B16	5	.195
B17	6	.320
B19	7	.468

Ref.: Fed. Spec. GGG-P-471a—Type H—Class 1—Style 2.

B18 HEAVY-DUTY DIAGONAL CUTTING PLIER

Heavy-duty construction with close jointed cutters for added leverage. Vinyl grip handles.

B18	7	.476
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Ref.: Fed. Spec. GGG-P-471a—Type H—Class 2.

B20 ANGLE NOSE BATTERY PLIER

Thin tapered nose offset at 30° angle for easy accessibility. Deep milled teeth provide non-slip grip. Full polished heads. Vinyl grip handles. Length: 8 inches. Maximum jaw opening: 1 1/4 inches. Weight: .437 lbs.

Fed. Spec.: GGG-P-471a, Type D.

PLIERS—Lock Ring, Lineman's, Long Nose, Thin Nose, Duck Bill, Combination



B21 HORSESHOE LOCK RING PLIER

Designed to spread horseshoe lock washers on brakes, transmissions, etc. Right angle offset nose has deeply serrated teeth for positive grip. Polished head. Deep grooved gun metal handle. Tip width: 5/16 inch. Length: 7 3/4 inches. Weight: .414 lbs.

B22, 23 LINEMAN'S PLIERS WITH SIDE CUTTERS

Drop forged, fine ground tool steel. Hand honed cutting edges. Heads polished. Vinyl grip handles.

Number	O.A. Length	Weight (Lbs.)
B22	6	.500
B23	8 1/2	.953
Ref.: Fed. Spec. GGG-P-471a—Type N.		

B25 LONG NEEDLE NOSE WITH SIDE CUTTERS

Long milled jaws. Inside length: 1 13/16 inches tapering to 1/16 inch needle nose at point. Full polished head. Vinyl grip handle. Length: 6 inches. Weight: .250 lbs.

Fed. Spec.: GGG-P-471a, Type P.

B29 MECHANIC'S COMBINATION WITH SIDE CUTTER

Deep milled teeth with keen edged side cutters. Two position slip joint. Bright polished nickel plate finish with deep grooved handles. Length: 7 1/2 inches. Weight: .578 lbs.

B30 DUCK BILL, LONG NOSE PLIER

Has long, thin, flat jaws to reach into tight quarters. Jaws 2 3/16 inches inside. Length: 6 1/2 inches. Weight: .265 lbs.

Fed. Spec.: GGG-P-471a, Type Y.

B33 HOG RING PLIER

Popular for seat cover installation. Length: 7 inches. Weight: .409 lbs.

B35 RIB JOINT IGNITION PLIER

Three position forged groove plier. Small, compact with strong, powerful holding ability. Blued finish with polished head. Length: 5 inches. Weight: .140 lbs.

B36, 38, 310 COMBINATION PLIERS

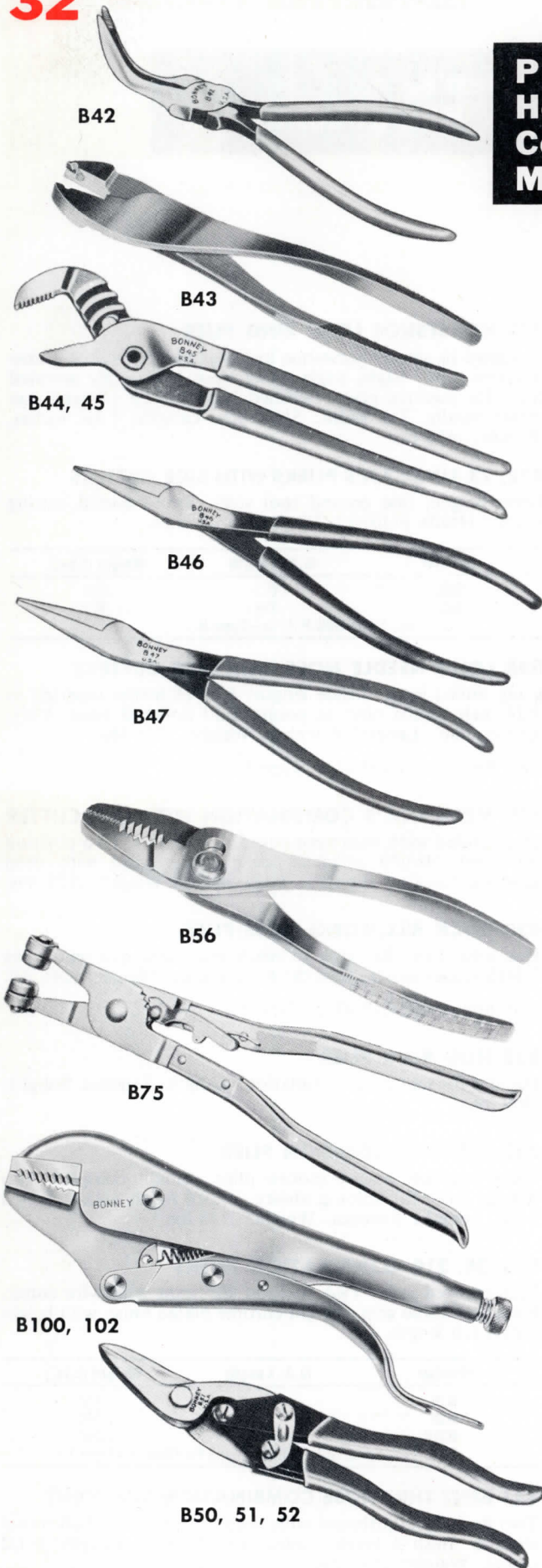
Mill grooved jaws. Two position slip joint with wire cutter. Knurled handle grip. Bright chrome plated finish with bright polish full length.

Number	O.A. Length	Weight (Lbs.)
B36	6	.422
B38	8	.648
B310	10	1.000
Ref.: Fed. Spec. GGG-P-471a—Type F—Class 1—Style 1.		

B41 BENT THIN NOSE COMBINATION SLIP JOINT

Two position adjustment with deep milled teeth. Full nickel chrome finish — bright polish full length. Length: 6 1/2 inches. Weight: .437 lbs.

PLIERS—Curved Needle Nose, Hose Clamp, Rib Joint, Chain Nose, Combination, Plier Wrenches, Metal Snips



B42 CURVED NEEDLE NOSE

Slender milled jaws tapering to 1/16 inch at points. Curved to reach around obstructions. Full polished jaws — vinyl grip handle. Nose offset: 1 1/4 inches. Length: 5 1/2 inches. Weight: .281 lbs.

Fed. Spec.: GGG-P-471a, Type T, Class 1.

B43 CORBIN HOSE CLAMP PLIER

Chrome plated. Nose polished. Length: 8 inches. Weight: .546 lbs.

B44, 45 RIB JOINT PLIERS

Forged multiple rib grooves provide safe, non-slip gripping power. Deep milled teeth. Full polished heads with vinyl grip handles.

Number	O.A. Length	Weight (Lbs.)
B44	6 1/2	.429
B45	10	.906

Ref.: Fed. Spec. GGG-P-471a—Type E—Class 1.

B46 SHORT JAW CHAIN NOSE PLIER

Short, pointed nose with long handles for maximum gripping and holding power. Milled jaws. Inside length: 1 1/2 inches tapering to 1/16 inch at point. Polished heads with vinyl grip handle. Length: 8 inches. Weight: .375 lbs.

Fed. Spec.: GGG-P-471a, Type T, Class 2.

B47 SHORT JAW DUCK BILL PLIER

Short flat milled jaws, 1 1/2 inches, with long handles for greater leverage. Full polished with vinyl grip handles. Length: 8 inches. Weight: .414 lbs.

Fed. Spec.: GGG-P-471a, Type Y.

B56 STRAIGHT THIN NOSE COMBINATION

Deep milled, thin, narrow jaws with wire cutters. Deep knurled handles. Full polished chrome plate finish. Length: 6 1/2 inches. Weight: .453 lbs.

Fed. Spec.: GGG-P-471a, Type F, Class 2, Style 1.

B75 WIRE HOSE CLAMP PLIER

Swivel jaws (tips) grooved to fit any size wire hose clamp. Finger tip positioner locks in three positions to keep wire clamps spread open, thus freeing both hands. High polish chrome plated. B75—Length: 7 3/4 inches. Weight: .406 lbs.

B100, 102 PLIER WRENCHES

Indispensable as a do-all wrench. Compound leverage jaws lock and securely hold all shapes. Will not slip, yet release easily with a flick of the quick release lever.

B100	7	.781
B102	10	1.164

B50, 51, 52 METAL CUTTING SHEARS

Aviation type with compound action to provide increased power. Blades have serrated edges for easier cutting. Vinyl grip handle.

Number	Cut	Weight (Lbs.)
B50	Right-hand	.830
B51	Left-hand	.800
B52	Straight or Universal	.800



27600,
27610,
27620,
27630

27340

2681

**PLIERS—Snap Ring,
Brake Spring**

27600, 27610, 27620, 27630 SNAP RING PLIERS
Hardened tips for long, dependable service. These four pliers will service 98 per cent of existing automatic transmissions and power steering.

27600 Internal — Angular
For removing or installing internal rings. Tips are bent to give angular application. Weight: .187 lbs.

27610 External — Angular
For removing or installing external rings. These tips are bent to allow usage on angles. Weight: .203 lbs.

27620 Internal — Straight
Designed to remove or replace rings on internal applications calling for straight tips. Weight: .187 lbs.

27630 External — Straight
Straight tips, but is specifically designed for external type rings. Weight: .203 lbs.

27340 PARALLEL JAW PLIER
The unique design of these pliers enables the jaws to remain parallel when removing snap rings. Weight: .562 lbs.

2681 BRAKE SPRING PLIER
This plier has a prominent hook in the lower jaw which allows better control when removing brake springs. Replacement Socket (2681A) is available.
2681 Length: 12 1/2 inches. Weight: .725 lbs.

HACKSAWS, FRAMES, BLADES



2623

2629

2628

2623 DELUXE HACKSAW FRAME
Lightweight with complete rigidity. Cuts absolutely flush sideways and bottoms on vertical cuts. Composition pistol grip handle. Baked enamel finish on frame. Blade storage in tubular arm.
2623—Length: 16 inches. Uses 12 inch blade. Weight: 1.500 lbs.

2627 MIDGET (Close Quarter) HACKSAW FRAME
Designed to fit in confined work areas. Popular with electricians, plumbers, and home mechanics. Handles only 6 inch blades (2627B).
2627—Length: 10 inches. Weight: .296 lbs.

2627B BLADES ONLY
6 inch blade for 2627 Frame. Package of 10. Weight: .065 lbs.

2628 ALL STEEL HACKSAW FRAME
Heavy cold rolled steel frame with full formed, non-breakable pistol grip handle. 2628—Adjustable from 8-12 inches. Length: 16 inches. Weight: 1.375 lbs.

2629 JAB SAW
Reaches into areas where no other saw will operate — use of broken blades provides plus economy. Will reach 6 inches into 3/4 inch holes with rigidly supported blade and extends up to 10 inches further with blade extended. 2629—Length: 10 1/2 to 15 inches using 10 inch blade. Weight: .812 lbs.

HACKSAW BLADES
A type and size for every job. Bonney hacksaw blades are available in the "F" series, flexible tungsten alloy back hardened teeth for general use, and "HS", high speed steel blades for heavy-duty cutting. Standard package ten blades.

F SERIES, BACK HARDENED BLADES

Number	O.A. Length	Teeth Per Inch	Weight Package (Lbs.)
★F1018	10	18	.380
★F1024	10	24	.380
★F1032	10	32	.380
★F1218	12	18	.450
★F1224	12	24	.450
★F1232	12	32	.450

HS SERIES "HI SPEED" BLADES

★HS1018	10	18	.380
★HS1024	10	24	.380
★HS1032	10	32	.380
★HS1218	12	18	.450
★HS1224	12	24	.450
★HS1232	12	32	.450

FILES AND HANDLES

Mill, Flat, Round & Half Round Bastard, Slim Taper, Point Files

Bonney's files are the finest money can buy. Made from specially refined high carbon file steel, they have deep cut, sharp teeth designed for rapid removal of metal. They are self-cleaning to avoid marring of work and of uniform width and thickness.

MILL (Bastard)

Number	O.A. Length	Package	Weight (Lbs.)
★FMB6	6	12	1.375
★FMB8	8	12	2.062
★FMB10	10	12	5.687
★FMB12	12	6	4.875
★FMB14	14	6	7.312
★FMB16	16	6	10.625

FLAT (Bastard)

★FFB6	6	12	.812
★FFB8	8	12	3.937
★FFB10	10	12	7.562
★FFB12	12	6	5.750
★FFB14	14	6	8.750

ROUND (Bastard)

★FRB6	6	12	.750
★FRB8	8	12	1.687
★FRB10	10	12	3.250
★FRB12	12	6	3.562

HALF ROUND (Bastard)

Number	O.A. Length	Package	Weight (Lbs.)
★FHB6	6	12	1.625
★FHB8	8	12	3.562
★FHB10	10	12	6.437
★FHB12	12	6	5.625
★FHB14	14	6	8.625

EXTRA SLIM TAPER

★FXST5	5	12	.625
★FXST6	6	12	1.125
★FXST8	8	12	2.750

WOOD HANDLES

Bonney hardwood file handles are provided in the three popular sizes to cover the full range of file lengths.

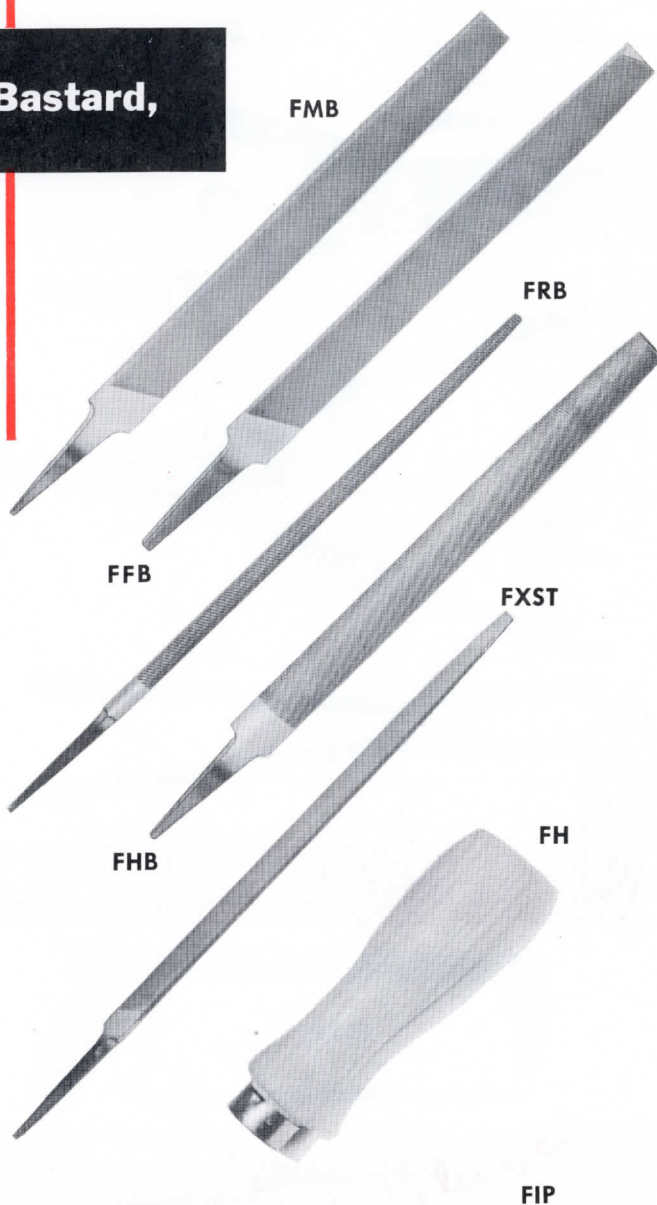
Number	Description	Weight (Lbs.)
★FH2	Small for 5" and 6" files	.125
★FH3	Medium for 8" and 10" files	.125
★FH4	Large for 12" and 16" files	.187

★FIP POINT FILE

For ignition, distributor, and spark plug points. Double cut for fast, smooth cut. Packaged twelve to merchandiser card.

★FIP—Length: 5 inches; Weight: .312 lbs.

★FIP-1—Individual File.

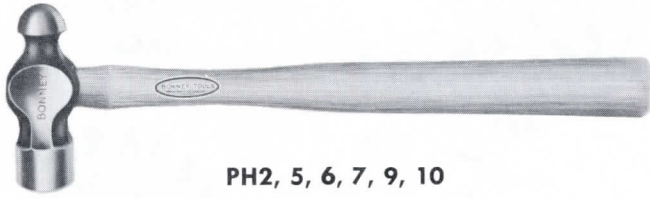


BONNEY *Ignition Files*

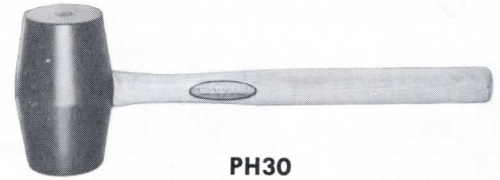
for CONTACT POINTS • DISTRIBUTORS • SPARK PLUGS • MAGNETOS • SWITCHES, RELAYS

BONNEY FORGE & TOOL WORKS ALLIANCE, OHIO

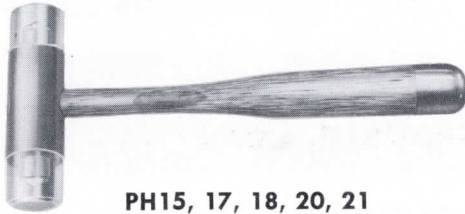
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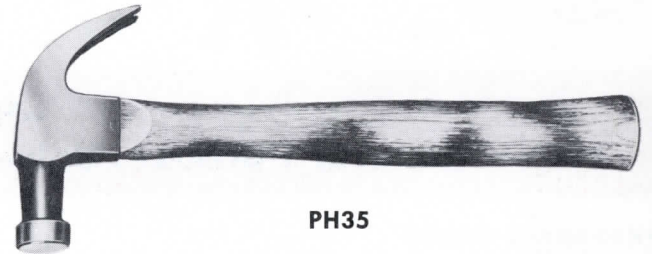
PH2, 5, 6, 7, 9, 10



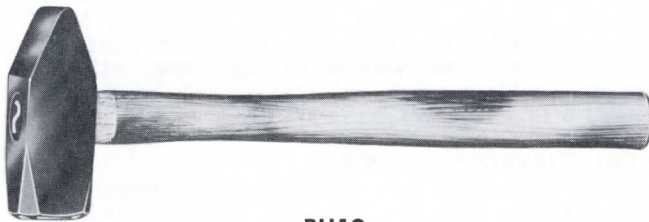
PH30



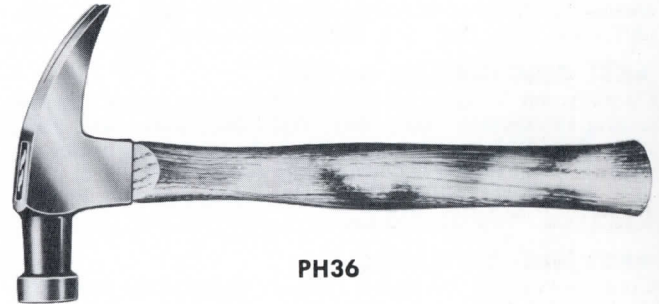
PH15, 17, 18, 20, 21



PH35



PH19



PH36

HAMMERS – Ball Pein, Soft Face, Tire and Rim, Claw, Rubber Mallet

PH2, 5, 6, 7, 9, 10 BALL PEIN

Drop forged from special hammer steel, specially heat treated and tempered. Hickory handle. Full polish finish with octagons black baked enamel.

Number	Weight (Oz.)	Number	Weight (Oz.)
PH2	4	PH7	16
PH5	8	PH9	24
PH6	12	PH10	32

★PH17, 18, 15, 20, 21 SOFT FACE AND TIPS

Tough, replaceable plastic tips protect parts from damage.

Number	Weight (Oz.)	Extra Tips Number	Diameter
★PH17	1½	★PH17TP	5/8
★PH18	4	★PH18TP	7/8
★PH15	8	★PH15TP	1¼
★PH20	16	★PH20TP	1¾
★PH21	32	★PH21TP	1⅞

PH19 TIRE & RIM

PH19—Length: 5 inches. Weight: 48 oz.

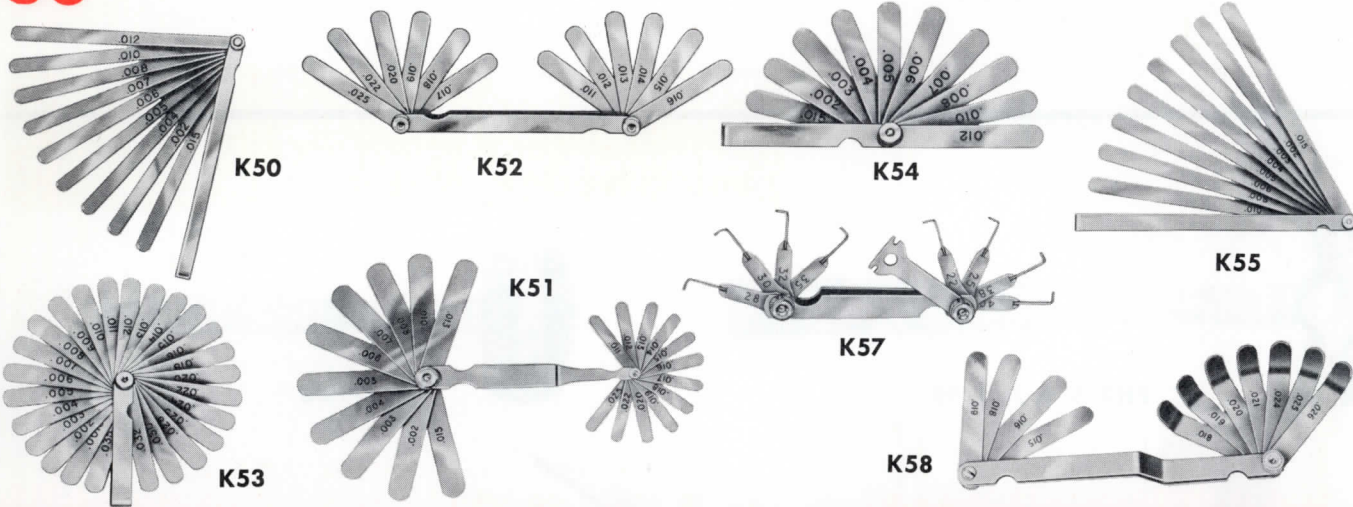
★PH30 RUBBER MALLET

★PH30—Length: 17 inches. Weight: 28 oz.

PH35, 36 CLAW

Drop forged hammer, steel, full polish finish.

Number	O.A. Length	Weight (Oz.)
PH35 Curved	13⅞	16
PH36 Straight	13⅞	16



FEELER GAUGES—Brake Adjusting, Ignition, General Purpose, Universal, Standard, Long

★K50 BRAKE GAUGE

Contains nine 4 inch x 1/4 inch blades in the following thicknesses for checking brake clearances: .002, .004, .005, .006, .007, .008, .010, .012, .015. Packed 6 to a box. Weight: 6 oz.

★K51 COMBINATION GAUGE

Contains ten 3 inch x 1/2 inch blades on one end of the following thicknesses: .002, .003, .004, .005, .006, .007, .008, .010, .013, .015; and twelve 1 3/4 inch x 1/4 inch blades on the other end of the following thicknesses: .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .022, and .025. Packed 6 to a box. Weight: .750 lbs.

★K52 IGNITION GAUGE

Contains twelve 1 3/4 inch x 1/4 inch blades of the following thicknesses: .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .022, and .025. Packed 6 to a box. Weight: 6 oz.

★K53 UNIVERSAL MASTER GAUGE

Contains twenty-five 3 5/16 inch x 1/2 inch blades of the following thicknesses: .0015, .002, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .018, .020, .022, .024, .025, .028, .030, .032, and .035. Packed 6 to a box. Weight: 1.250 lbs.

★K54 STANDARD FEELER GAUGE

Contains ten 3 5/16 inch x 1/2 inch blades of the following thicknesses: .002, .003, .004, .005, .006, .007, .008, .010, .012, and .015. Packed 6 to a box. Weight: .500 lbs.

★K55 PISTON GAUGE—EXTRA LONG FEELER

Contains eight 9 inch x 1/2 inch blades of the following thicknesses: .002, .003, .004, .005, .006, .008, .010, and .015. Packed 6 to a box. Weight: 1.000 lbs.

★K56 SINGLE END HOLDER

(Positive Adjustment Lock)

Length: 4 1/2 inches. Packed 12 to a box. Weight: 1 1/2 oz.

★K57 SPARK PLUG WIRE GAUGE

Contains one electrode bender and eight wire gauges of the following thicknesses: .022, .025, .028, .030, .032, .035, .038, and .040. Packed 6 to a box. Weight: 7 1/2 oz.

★K58 COMBINATION O.H.V. GAUGE

Contains seven 3 5/16 inch x 1/2 inch blades with 45° offset of the following thicknesses: .018, .019, .020, .021, .024, .025, .026; and four straight 3 5/16 inch x 1/2 inch in the following thicknesses: .015, .016, .018, and .019. This gauge especially useful on Ford, Mercury and Studebaker motors. Packed 6 to a box. Weight: 1.375 lbs.

★K60 FORD GAUGE

Contains thirteen step-ground 3 5/16 inch x 1/2 inch Go-No-Go blades of the following thicknesses: .010-.012, .011-.013, .012-.014, .013-.015, .014-.016, .015-.017, .016-.018, .017-.019, .018-.020, .019-.021, .021-.023, .024-.026, .025-.027. Four 3 5/16 inch x 1/4 inch Ignition Blades: .015, .016, .020, .025. Three 90° offset wire blades: .025, .028, .035. Two straight wire blades: .017, .030. One electrode bending tool. Packed 6 to a box. Weight: 1.375 lbs.

★K61 CHEVROLET GAUGE

Contains eight 3 5/16 inch x 1/2 inch regular blades in the following sizes: .006, .007, .008, .010, .012, .013, .015, .020. Four 3 5/16 inch x 1/4 inch ignition blades: .016, .018, .020, .022. Three 90° offset wire blades: .032, .035, .040. One electrode bending tool. Packed 6 to a box. Weight: 1.000 lbs.

★K62 15 BLADE GO-NO-GO GAUGE

Contains fifteen 3 5/16 inch x 1/2 inch step-ground blades of the following thicknesses:

.006 - .008	.007 - .009	.008 - .010
.009 - .011	.010 - .012	.011 - .013
.012 - .014	.013 - .015	.014 - .016
.015 - .017	.016 - .018	.017 - .019
.018 - .020	.019 - .021	.020 - .022

Packed 6 to a box. Weight: 1.000 lbs.

★K63 MASTER IGNITION GAUGE

Serves domestic and foreign cars.

Contains sixteen 1 3/4 inch x 1/4 inch blades of the following thicknesses: .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .022, .024, .025, .028, .030, and .032. Packed 6 to a box. Weight: 6 oz.

★K64 UNIVERSAL O.H.V. GAUGE FOR V-8 ENGINES

Contains sixteen 3 5/16 inch x 1/2 inch blades with 45° offset for checking valve clearances on most V-8 engines of the following thicknesses: .009, .010, .011, .014, .015, .016, .017, .018, .019, .020, .021, .023, .024, .025, .026, and .027. Packed 6 to a box. Weight: 1.250 lbs.

REPLACEMENT FEELER GAUGE BLADES

★K0015 to K026B Replacement Blades. Length: 3 5/16 inches. Width: 1/2 inch. From .0015 to .026 thickness. (Package of 6.) For complete listing, see price list.

★KL0015 to KL040 Long Replacement Blades. Length: 12 inches. Width: 1/2 inch. From .0015 to .040 thickness. (Package of 6.) For complete listing, see price list.

PULLERS
Convertible, Two Arm, Timing Gear and Steering Wheel

**PO11
PO11L**

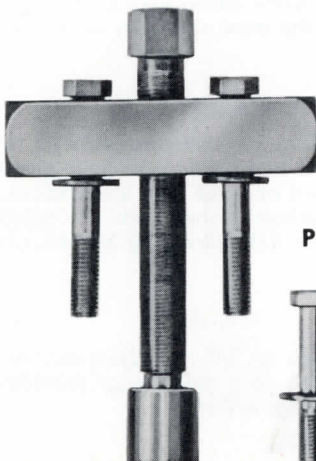
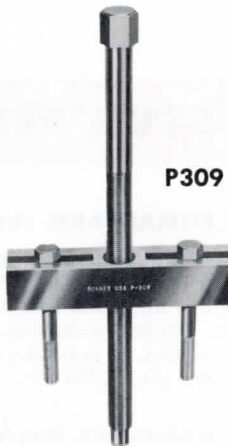


**PO12
PO12L**

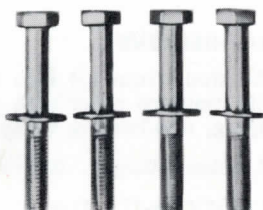


P305

P309



P311



PO11 CONVERTIBLE THREE JAW PULLER

Designed for quick changeover to a two or three jaw puller. The reversible jaws (PO11-5) have a maximum reach of 3 7/8 inches in depth and up to 5 1/2 inches spread. Bright nickel chrome plate. Weight: 2.562 lbs.

PO11-5 — Replacement Jaw.

PO11L CONVERTIBLE THREE JAW PULLER (With Long Jaws)

The same puller as PO11 with the exception of longer adjustable jaws (PO11L-5) with a maximum reach of 5 1/2 inches and a spread up to 8 inches. Bright nickel chrome plate. Weight: 3.250 lbs.

PO11L-5 — Replacement Jaw.

PO12 CONVERTIBLE THREE JAW PULLER

The heavy-duty construction of this puller will answer most of the demands of the automotive service shop. Easily converted into a two or three jaw puller to meet various job requirements. Reversible jaws slotted on each end. These jaws (PO12-5) have a maximum reach of 5 1/2 inches and will spread to 8 inches. Bright nickel chrome plate. Weight: 6.000 lbs.

PO12-5 — Replacement Jaw.

PO12L HEAVY-DUTY THREE JAW CONVERTIBLE PULLER (With Long Jaws)

This puller has a maximum reach of 8 1/2 inches depth and spread to 10 inches. Easily converted into a two or three jaw puller to meet various job requirements. Bright nickel chrome plate. Weight: 7.000 lbs.

PO12L-5 — Replacement Jaw.

P305 TWO ARM GEAR PULLER

Especially useful to the refrigeration serviceman, but also covers a great number of applications in automotive and aircraft service. The unique feature of this puller is the simplicity of its design and construction. Bright nickel chrome plate.

Maximum reach: 2 3/8 inches. Maximum spread: 3 1/2 inches. Weight: 1.625 lbs.

P309 TIMING GEAR PULLER

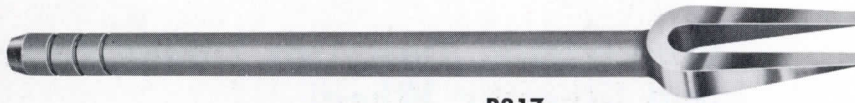
For removing timing gears, fan assemblies, vibration dampeners, and other parts which are tapped to receive cap screws 3/8 inch in diameter or less. Bright nickel chrome plate.

Maximum reach: 7 1/2 inches. Maximum spread: 5 1/2 inches. Weight: 2.750 lbs.

P311 STEERING WHEEL PULLER

Designed to pull steering wheels on most late model automobiles. Includes three sets of side screws, 3/8-16, 5/16-18, and 5/16-24. The center screw is 5/8-18 x 4 inches. The floating swivel is recessed so as not to damage the spring tip connected to the horn wires.

Bright cadmium plated. Weight: 2.250 lbs.



P317



P319



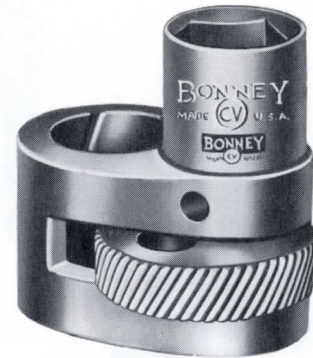
P325



P331



P329



2591

PULLERS, SEPARATORS & STUD REMOVERS

P317 SHOCK LINK AND STABILIZER LINK SEPARATOR

This forked wedge separator is used to free the tapered links of the shock absorber assembly or the stabilizer assembly from their mountings. Bright nickel chrome finish.

Jaw opening: 5/8 inch. Length: 16 inches. Weight: 2.250 lbs.

P319 PITMAN ARM SEPARATOR

A forked wedge type separator used to dismount the Pitman arm assembly. Bright nickel chrome finish.

Jaw opening: 1 1/8 inches. Length: 11 1/4 inches. Weight: 1.625 lbs.

P325 UNIVERSAL WHEEL PULLER

The adjustable legs make it possible to adapt to any hub, regardless of number of studs. Bright nickel chrome finish.

Maximum spread: 7 1/2 inches. Maximum reach: 4 7/8 inches. Weight: 10.000 lbs.

P329 PITMAN ARM PULLER

This tool can be used to remove the pitman arms from the majority of cars and light trucks. The yoke is forged from a high grade alloy steel, heat treated to withstand the toughest service. The heavy-duty center screw allows enough pressure to be applied to remove even the most stubborn of pitman arms. Weight: 1.250 lbs.

P331 HARMONIC BALANCER PULLER

Designed to pull balancers, vibration dampers, pulleys, or any gear with tapped holes. The four slots in the yoke allow the use of this tool in either two or three hole applications. The floating swivel prevents damage to shaft ends. Included are the necessary side screws — (3) 3/8-24, (3) 5/16-18, (2) 3/8-16. Weight: 2.500 lbs.

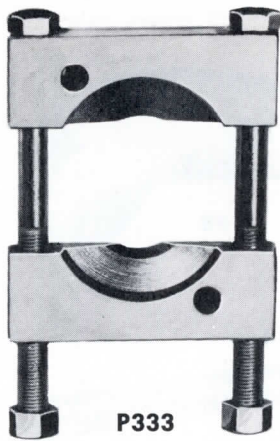
2591 STUD REMOVER

Will handle studs from 1/4 inch to 3/4 inch diameter. An eccentrically mounted roller with deep milled edge provides a non-slipping, non-burring wedge action.

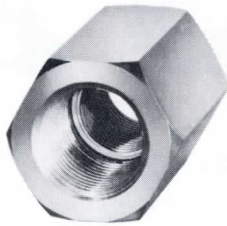
Length: 2 inches. Weight: .053 lbs.

Fed. Spec.: GGG-S-775, Type 3.

PULLERS AND BEARING SPLITTER



P333



P339

P333 BEARING SPLITTER

Designed for removing generator gears, bearings, bearing cones, and similar parts, where ordinary puller jaws will not reach. The knife edges are flush on one side to get behind the work for easy pulling.

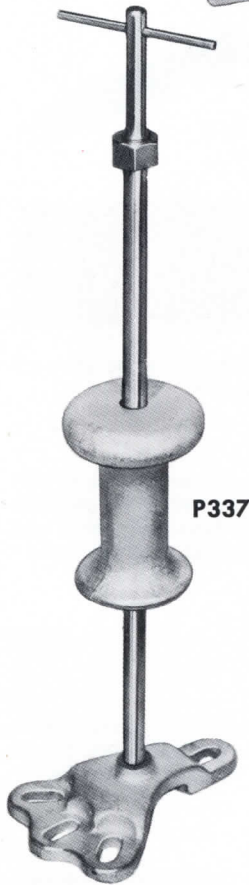
Capacity: 0 inch to 2 1/4 inches. Weight: 1.500 lbs.



P335

P335 BATTERY TERMINAL PULLER & GENERATOR BEARING PULLER

The design of this tool allows the sharp jaws to engage either below or on the sides of the cable terminal. A few turns of this forcing screw will lift the tightest terminals without damage to the battery case or posts. *Note:* To make this tool more versatile, the swivel is designed so that it can be used also as a generator bearing puller and magneto gear puller. Range: 5/8 inch to 1 3/8 inches. Weight: .563 lbs.



P337

P337 FLANGE TYPE AXLE PULLER

This tool can be used as a regular wheel puller or hub puller as well as a flange type puller. The bolt circle range is from 4 1/2 inches to 5 1/2 inches which covers all major cars and small trucks with flange type axles. The four slots in the adapter allow this tool to be used on either 4, 5, or 6 bolt or stud designs. Has extra heavy 5 1/4 pound sliding hammer. Weight: 10.000 lbs.



P338

P338 YOKE FOR VALIANT AND LANCER

For use with P337. This special yoke is designed to remove flange type axles on the Valiant and Lancer compact cars. Range: 3 3/4 inches to 4 1/2 inches. Weight: 3.750 lbs.



P341

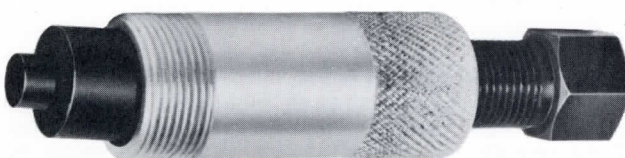
P339 ADAPTER — AXLE SHAFT REMOVER

For use with P337. This threaded coupling or adapter is needed to remove the axle shaft on Rambler and Chrysler product cars except the Valiant and Lancer. Threaded with a 3/4-16 on one end and 7/8-14 on the other. Weight: .375 lbs.

P341 UNIVERSAL JOINT PULLER

Designed to remove and assemble universal joints on the majority of passenger cars and light trucks in less than 20 minutes. The key to this method is in the use of the special adapter which allows the bearing cups to be removed in one simple and fast operation. A horseshoe shaped spacer is provided for use on certain types of joints having a longer than normal skirt.

With the use of this tool, it is unnecessary to hammer any of the component parts which could cause damage. Many jobs can be performed right on the car whenever clearance allows. Weight: 5.750 lbs.



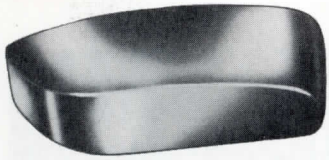
P343

P343 RAMBLER STEERING WHEEL PULLER

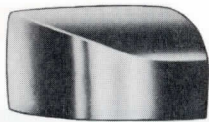
Designed to make your work easier and more profitable. Insert the body inside threaded steering wheel, turn forcing screw to seat swivel end and remove steering wheel. Fast and easy with no possible damage to steering wheel assembly.

Bright cadmium plated body with black oxide moving parts. Weight: .375 lbs.

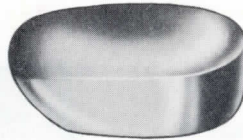
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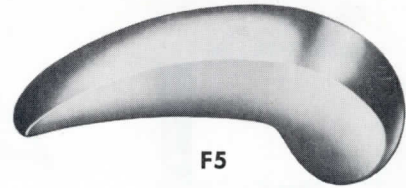
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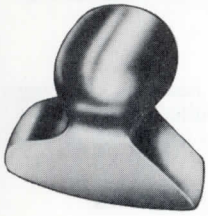
F4



F5



F6



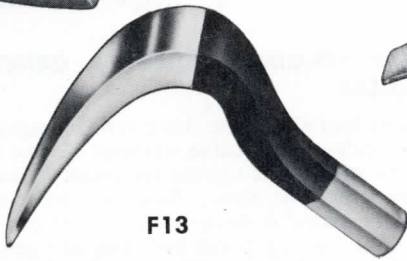
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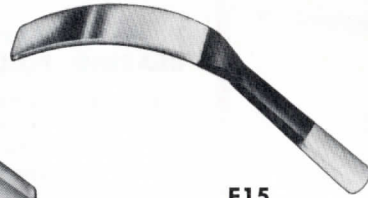
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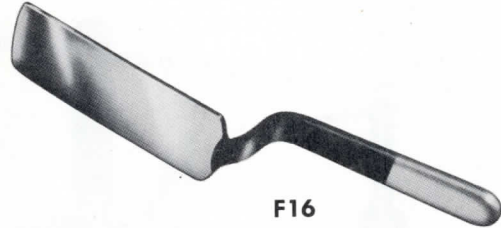
F13



F15



F16



BODY AND FENDER TOOLS

Dolly Blocks, Spoons

Bonney Body and Fender Tools are drop forged from carefully selected steels, hardened and tempered to assure long life under hard use. Each working surface is carefully engi-

F2 TOE DOLLY

Thinness and length provide easy accessibility to narrow pockets. Large, flat face is used in shrinking and dinging flat panels. The flat sides furnish a convenient anvil for repairing flanges. Size: 4 3/4 inches x 2 3/8 inches x 1 1/8 inches. Weight: 2.500 lbs.

Fed. Spec. GGG-B-481a, Type 4.

F3 HEEL DOLLY

Designed to reach easily into sharp corners and wide radii. These features are exclusive to the heel dolly. Size: 3 1/4 inches x 2 1/2 inches x 1 7/16 inches. Weight: 2.500 lbs.

Fed. Spec. GGG-B-481a, Type 3.

F4 LOW CROWN DOLLY

Specially designed for use on low crown panels where medium and high crown dollies would stretch the metal. Angle between the sides and large face is less than 90° which permits this dolly to reach into the corner of a flanged edge. Size: 3 7/8 inches x 2 3/4 inches x 1 5/8 inches. Weight: 3.000 lbs.

Fed. Spec. GGG-B-481a, Type 6.

F5 WEDGE DOLLY

Long, slender, general purpose dolly. Favored by many body repair men for all-around use. Size: 5 3/4 inches x 2 3/8 inches x 2 3/16 inches. Weight: 3.250 lbs.

Fed. Spec. GGG-B-481a, Type 5.

F6 GENERAL PURPOSE DOLLY

Provides convenient and comfortable hand hold during heaviest blows. Weight, balance, and several differently crowned working faces, together with two beading and flange lips, give this dolly broad general use. Size: 2 7/8 inches x 2 3/8 inches x 2 1/4 inches. Weight: 3 lbs.

Fed. Spec. GGG-B-481a, Type 1, Style D.

neered to do the job for which designed. Working faces are smooth, accurately shaped, fully polished.

F7 UTILITY DOLLY

High crown dolly with one narrow beading edge. Thick rounded sides are useful in short radii curves. Wide application of uses in high crown portions of hoods, fenders, and body panels. Size: 3 1/8 inches x 3 inches x 1 5/8 inches. Weight: 3.000 lbs.

Fed. Spec. GGG-B-481a, Type 8, Style B.

F14 "WING DING DOLLY"

The answer to repair problems on high-fin cars. Long handle, special contours for working up inside cramped fins. 1 inch Diameter Handle. Length: 19 inches. Weight: 3.750 lbs.

F13 COMBINATION SPOON

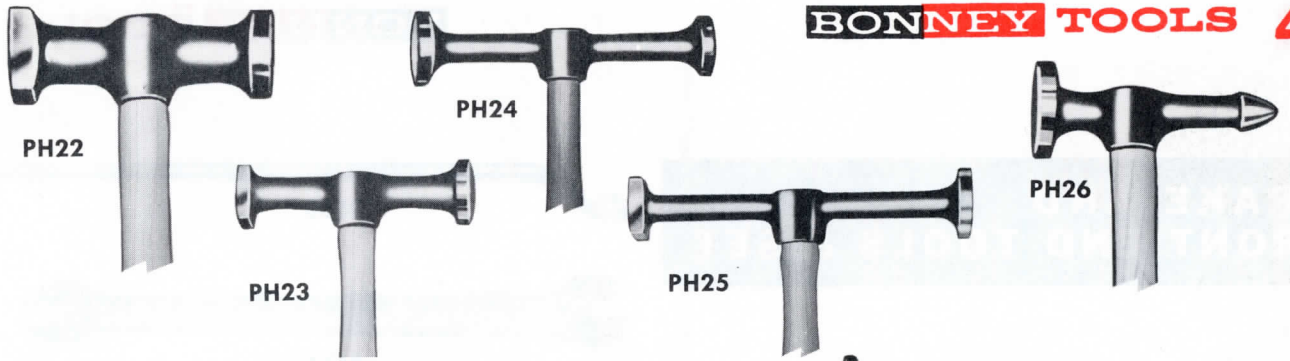
General purpose fender spoon. Used as dolly behind brackets, inner panels, and similar places. Has high crown working surface. Face: 1 3/4 inches x 5 1/2 inches. Handle: 1 inch octagon, 4 3/4 inches long. Weight: 2.750 lbs.

F15 LONG CURVED SPOON

Long, thin, curved blade is handy for prying up dents behind curved reinforcements in header panels, hinge anchors in doors, body pillars and reinforcements in hoods and radiator shells. Length: 10 1/2 inches. Face: 2 inches x 7 inches. Weight: 1.500 lbs.

F16 LIGHT DINGING SPOON

To ding ridges smooth and level. When held against ridge and struck with hammer, spreads blow over large area making smooth job and preventing damage to metal or finish. Not made for prying. Face: 2 inches x 4 5/16 inches. Length: 10 inches. Weight: .688 lbs.



**BODY AND FENDER TOOLS
Hammers, Files & Set**

PH22 HEAVY-DUTY BUMPING HAMMER
For heavy gauge truck fenders and panels. Faces: 1 1/4 inches round; 1 3/16 inches square. Head Length: 4 inches. Weight: 13 oz.

PH23 DINGING HAMMER
Short reach, lightweight. Combines low crown, round and square faces. Faces: 1 1/4 inches round; 1 3/16 inches square. Head Length: 4 inches. Weight: 9 oz.

PH24 GENERAL PURPOSE DINGING HAMMER
For fenders and other high crown panels. Large, low crown face for dinging on dolly; small high crown face for dinging off dolly and for driving down ridges. Faces: 1 1/4 inches and 1 9/16 inches round. Head Length: 6 inches. Weight: 11 oz.

PH25 DINGING HAMMER
A perfectly balanced hammer for light dinging where long reach is necessary. Square face permits dinging in corner of molding. Faces: 1 1/4 inches round; 1 1/16 inches square. Head Length: 6 inches. Weight: 10 oz.

PH26 UTILITY PICK HAMMER
Blunt point and short reach for driving up low spots in high crown panels. Can be used on fenders without removing wheel or wherever there is little clearance. Excellent for thin gauge panels. Face: 1 9/16 inches. Round point: 5/32 inch radius. Length of pointed end: 2 inches. Head Length: 4 inches. Weight: 10 oz.

PH27 MAGNETIC TRIMMERS' HAMMER
Weight: 7 oz.

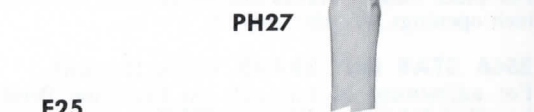
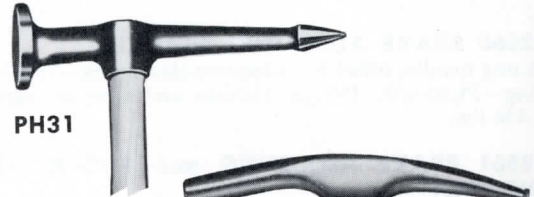
PH31 GENERAL PURPOSE PICK HAMMER
Medium size point and medium reach for general work. Low crown point gives weight for perfect balance with low crown dinging head. Face: 1 9/16 inches. Round point: 3/32 inch radius. Length of pick end: 3 3/4 inches. Weight: 9 oz.

★F25 FLEXIBLE CURVED TOOTH FILE
Length: 14 inches. Weight: .687 lbs.

F31 FLEXIBLE FILE HOLDER
Made of aluminum for long dependable service. Used with 14 inch flexible file; file can be flexed to match surface to be worked on. Weight: 1.437 lbs.

F24 STRAIGHT WOOD FILE HOLDER FOR F25
Made from choice hardwood for lightweight and durability. Weight: .937 lbs.

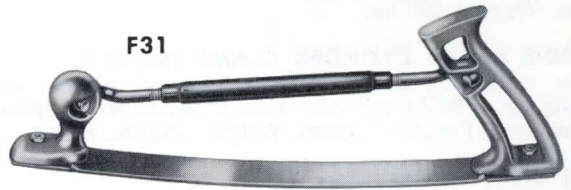
★F26 SET consisting of 6 F25 Blades and 1 F24 File Holder packed in cardboard box — 5.188 lbs.



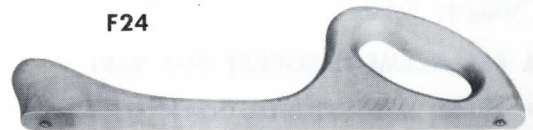
F25



F31

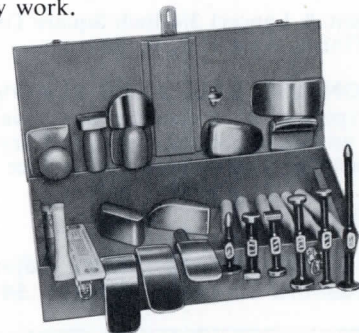


F24



**FB9B BODY AND FENDER TOOL SET
(19 Pieces—47.313 Lbs.)**

This body repair set contains the most popular tools used in general body work.



Number	Description	Number	Description
F2	Toe Dolly	F25	14" Flexible File Blade
F3	Heel Dolly	F31	Adjustable File Holder
F4	Low Crown Dolly	PH22	Bumping Hammer
F5	Wedge Dolly	PH23	Dinging Hammer
F6	Universal Dolly	PH24	Dinging Hammer
F7	Utility Dolly	PH25	Dinging Hammer
F13	Combination Spoon	PH26	Pick Hammer
F14	Wing Ding Dolly	PH31	Pick Hammer
F15	Body Spoon	MB64	Metal Box, 21 1/2" x 9 1/2" x 4 1/2"
F16	Dinging Spoon		

BRAKE AND FRONT END TOOLS & SET

2560 BRAKE ADJUSTING WRENCH

Long handle, offset for adequate clearances—7/16 inch opening—Plymouth, Dodge, DeSoto and Chrysler cars. Weight: .438 lbs.

2561 BRAKE ADJUSTING and SHOCK ABSORBER WRENCH

For older Bendix brakes and most jeeps. 3/16 inch and 1/4 inch openings. Weight: .169 lbs.

2566 STAR NUT BRAKE TOOL (Spoon)

For adjustment of star nuts on two shoe Bendix brakes. Length 7 3/4 inches. Weight: .213 lbs.

2566A STAR NUT BRAKE TOOL (Spoon)

Brake spoon similar to 2566 but having one end straight. Popular in close quarters on new model cars. Length: 8 1/4 inches. Weight: .209 lbs.

27430-2 BRAKE CYLINDER CLAMP (Set of 2)

Spring wire clamps, easy to apply, prevent pistons from coming out of brake cylinders when shoe and return springs are removed. Length: 7 inches. Weight: .212 lb., each.

2681 Brake Spring Pliers

Universal plier designed for ease and speed in the removal and replacement of internal brake springs. Length: 12 1/2 inches. Weight: .725 lbs.

2681A REPLACEMENT SOCKET FOR 2681

56804, 56806 & 56813 BALL JOINT SOCKETS

For removal and adjustment of ball joints.

56804 (for Plymouth & Dodge) 3/4 inch Square Drive, Nickel Chrome Plate Finish, Weight: 1.562 lbs.

56806 (for Chrysler, DeSoto & Imperial) 3/4 inch Square Drive, Nickel Chrome Plate Finish, Weight: 1.750 lbs.

56813 (for Valiant & Lancer) 3/4 inch Square Drive, Nickel Chrome Plate Finish, Weight: 1.182 lbs.

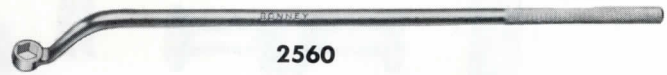
56808 TORSION-AIRE BALL JOINT REMOVER

This spreader type tool is an essential time saver for safely forcing the ball and joint assembly apart on Chrysler Corporation cars, whenever it is necessary to replace one of the ball joints.

Weight: 1.375 lbs.

SET NO. ★N8 (9 Piece Camber-Caster Adjustment Set Packed in Cardboard Container—Weight .595 lbs.)

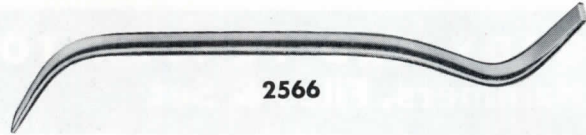
Number	Description O. E. Crowfoot Wrench, 1/2" Drive
1609 (Pontiac)	1 1/4" Opening
1611 (Ford)	1 5/16"
1612 (Chrysler)	1 13/32"
1613 (Hudson)	1 7/16"
1614 (Ford)	1 1/2"
1615 (Cadillac, Olds)	1 3/8"
1238 (Ford)	Service Wrench, 1 3/16" Op.
TW8 (GMC Cars)	Socket Head Wrench, 3/8" Drive
TW10 (GMC Cars)	Socket Head Wrench, 3/8" Drive



2560



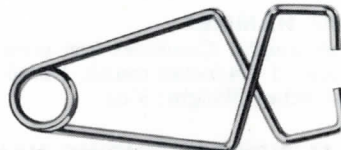
BONNEY
2561



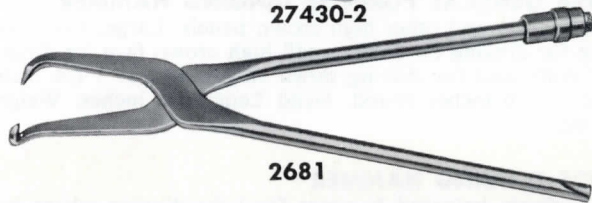
2566



2566A



27430-2



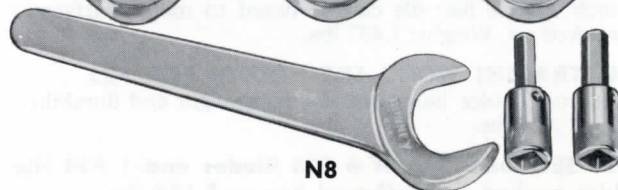
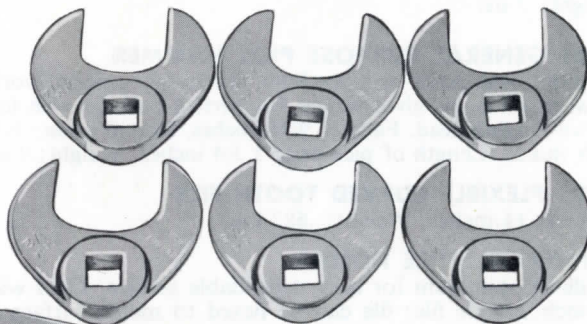
2681



56804, 56806 & 56813



56808



N8

BRAKE AND FRONT END TOOLS
Flaring Tool, Cylinder Hone



RF100B

RF100B DOUBLE FLARING TOOL SET

Designed to produce 45° double flares on 3/16 inch, 1/4 inch, 5/16 inch, 3/8 inch, and 1/2 inch O.D. soft steel tubing up to .040 wall thickness. Will also form single flares on soft copper, aluminum, or brass tubing.

Forged steel yoke hardened and tempered for greater strength. Forcing cone has swivel action to reduce friction.

Bright plated finish. Packed in fitted, metal case. Weight: 3.250 lbs.

RC150 BRAKE CYLINDER HONE

An all purpose 280 grit hone designed for brake cylinders and recommended for resurfacing of small engines up to 2-1/4 bore including Volkswagen.

Fast, easy cutting with high or low speed drills. Self aligning, self centering head carries three stones permanently cemented to steel backing shoes for quick change to new stones of same or finer grit. Built to bottom in blind holes or resurface step cylinder. Tension feed spring for light cutting action. Capacity: 3/4 inch to 2 1/4 inches. Weight: .250 lbs.



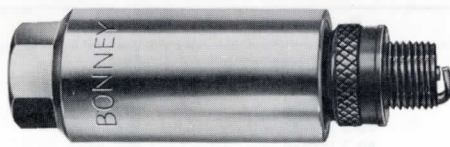
RC150

★**RC151** Set of 3 Replacement Stones — 280 Grit. Weight: .125 lbs.

★**RC152** Set of 3 Replacement Stones — 400 Grit. Weight: .125 lbs.

Above stone sets cemented to carrier with thermal cured cement. Fits RC150 above, Lisle BHX, Mighty Mite, Ammco No. 1650, and Barrett brake cylinder hones.

SPECIAL SERVICE STATION TOOLS



ALH26R, TLH26R



2575



A650



2553-2554



AT4, 5, 31

ALH26R, TLH26R SPARK PLUG SOCKETS

13/16 inch opening has special shallow broach with rubber holding insert to hold and protect plug. Available both in 3/8 inch and 1/2 inch square drives. Bright polish—nickel chrome plate.

ALH26R—1/2 inch Square Drive. Length: 2 5/8 inches. Weight: .312 lbs.

TLH26R—3/8 inch Square Drive. Length: 2 1/2 inches. Weight: .281 lbs.

A650 OLDSMOBILE DRAIN PLUG WRENCH

(Also fits Valiant & Lancer Differential Plugs) Special 8 point end fits plugs firmly—avoids slip and damage to plug. Nickel chrome plate finish. 1/2 inch Square Drive. Weight: .187 lbs.

2575 PETCOCK DRAIN PLUG WRENCH

Small, compact size and swivel end permits working in close quarters. Bright finish. Weight: .165 lbs.

AT4, 5, 31 WOBBLE DRIVE EXTENSIONS

Makes possible angular drive with rigid extension.

Number	O.A. Length	Weight (Lbs.)
AT31	3	.128
AT4	6	.212
AT5	12	.400

2553, 2554 FOUR WAY RIM WRENCHES

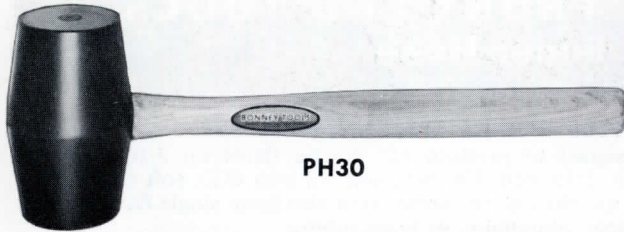
Covers practically all passenger cars and truck wheel nuts. Bright Silver finish.

2553—Arm Length: 20 inches. Six point openings of 3/4 inch, 7/8 inch, 13/16 inch, 15/16 inch. Weight: 8.000 lbs.

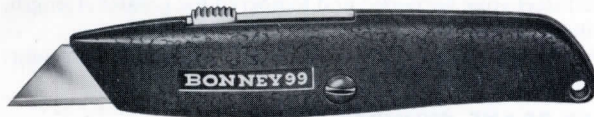
2554—Arm Length: 25 inches. Four point openings of 13/16 inch and six point openings of 7/8 inch, 1 inch, 1 1/16 inches, 1 1/4 inches, 1 1/2 inches. Weight: 12.000 lbs.

SPECIAL SERVICE TOOLS

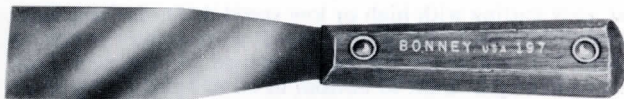
Miscellaneous



PH30



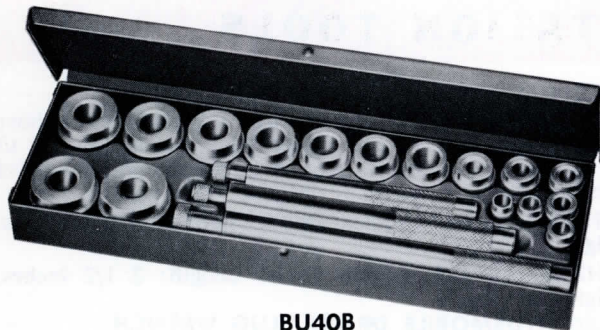
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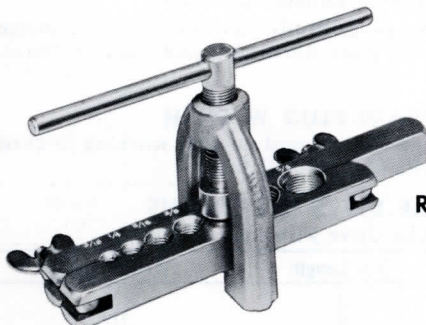
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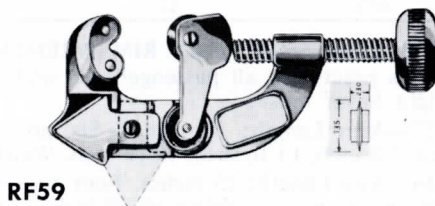
192



BU40B



RF46



RF59

★PH30 RUBBER Mallet, 28 OZ.

Popular for wheel and body work. Head molded of resilient rubber. 2 5/8 inches diameter.

99 SHOP KNIFE

New multi-purpose tool has retractable blade with three cutting positions. Blade storage in handle. Four blades included. Weight: .218 lbs.

★99B REPLACEMENT BLADES (Package of 4)

★†199B REPLACEMENT BLADES (Package of 5)

★197 PUTTY KNIFE

Handy for removing gaskets, grease, etc. Flexible steel blade 1 1/4 inches wide, 3 3/4 inches long. Length: 7 3/4 inches. Weight: .094 lbs.

192 SIX FOOT PUSH PULL RULE

Easy to read large black numbers on acid proof white enamel background. Chrome case. Scaled for inside, outside measurements. Weight: .235 lbs.

BU40B BUSHING DRIVER SET (22 Pieces—Weight 4.063 lbs.)

This set is designed to drive all passenger car bushings as well as many truck and tractor bushings. Tools are made of alloy steel, hardened and tempered to give the best service. Packaged in metal box.

Number	Bushing I.D.	Drive O.D.
40-1A Driver	3/8	7/16
40-2 Driver	7/16	1/2
40-3 Driver	1/2	9/16
40-5 Driver	9/16	5/8
40-7 Driver	39/64-5/8	43/64-11/16
40-8 Driver	5/8	3/4
40-9 Driver	11/16	13/16
41-1 Driver	47/64-3/4	55/64-7/8
41-2 Driver	13/16	15/16
41-3 Driver	55/64-7/8	63/64-1
41-4 Driver	15/16	1 1/16
41-5 Driver	1	1 1/8
41-6 Driver	1 1/16	1 3/16
41-7 Driver	1 1/8	1 1/4
41-7A Driver	1 3/16	1 5/16
41-8 Driver	1 1/4	1 3/8
42-1 Handle	7/16" Dia. x 5" Long	
42-2 Handle	5/8" Dia. x 6" Long	
42-3 Handle	13/16" Dia. x 7 1/16" Long	
43-1 Nut	Fits 42-1 & 42-2	
43-2 Nut	Fits 42-3	
Metal Box		

RF46 FLARING TOOL

Made of high grade steel, carefully machined and heat treated for long, dependable life. Plated finish. Capacity: 3/16 inch to 5/8 inch tubing. Width: 3/8 inch. Length: 6 1/2 inches. Weight: 2.038 lbs.

RF59 TUBE CUTTER

Cuts tubing from 1/8 inch to 1 inch O.D. Reamer held securely out of way when not in use. Bright nickel plate. Width: 2 inches. Length: 5 inches. Weight: .588 lbs.

★RF59B REPLACEMENT BLADES

SPECIAL SERVICE TOOLS
Miscellaneous



RF60-61 - 65



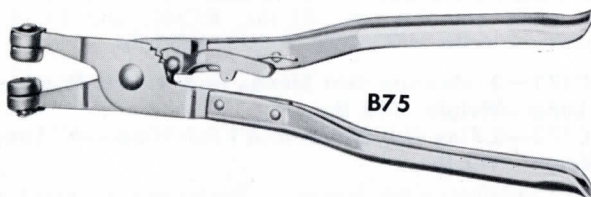
SER SIX PIECE SET



TR1-2



TR7



B75

NOTE: Of importance to purchaser of Special Service Tools: Reference should be made to pages 42 and 43 for Brake and Front End Tools and Special Service Station Tools.

★RF60-61, 62, 63, 64, 65 TUBE BENDERS

Ideal for bending copper and other tubing to any desired shape without danger of collapsing the tubing. Made of special oil hardened spring steel, chrome plated.

Number	Tube Size	O.A. Length	Weight Lbs.
★RF60	1/4	10	.156
★RF61	5/16	10	.187
★RF62	3/8	10	.247
★RF63	7/16	12	.384
★RF64	1/2	12	.438
★RF65	5/8	12	.531

★RF66 SIX PIECE TUBE BENDER SET Consisting of One Each of the Above in Cardboard Box.

★SE1, 2, 3, 4, 5, 6, SCREW EXTRACTORS

Removes broken studs or screws up to 1 inch in diameter.

Number	O.A. Length	Size Drill to Use	For Screw and Bolt Sizes	Weight Lbs.
★SE1	2	5/64	3/16-1/4	.009
★SE2	2 3/8	7/64	1/4-5/16	.015
★SE3	2 11/16	5/32	5/16-7/16	.031
★SE4	3	1/4	7/16-9/16	.059
★SE5	3 3/8	1 1/64	9/16-3/4	.097
★SE6	3 3/4	1 3/32	3/4-1	.200

★SER SIX PIECE SET Consisting of One Each Above in Leatherette Roll LR5—.625 lbs.

★TR1-2 THREAD RESTORERS

Easy to use—restores damaged or battered threads.

★TR1 for 11, 12, 13, 14, 16, 18, 20, 24 threads to inch. Weight: .375 lbs.

★TR2 for 9, 10, 12, 16, 20, 27, 28, 32 threads to inch. Weight: .338 lbs.

★TR7-8 THREAD RESTORER SETS

These thread chasers restore battered or damaged threads to let the nut run freely.

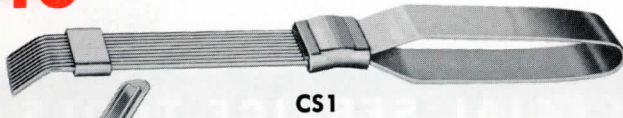
Set No. ★TR7 (Set of 8 SAE dies listed below—.403 lbs.)

Set No. ★TR8 (Set of 8 USS dies listed below—.419 lbs.)

Bolt Diameter	S.A.E. Thread Per Inch	U.S.S. Thread Per Inch	Hexagon Size
1/4	28	20	7/16
5/16	24	18	1/2
3/8	24	16	9/16
7/16	20	14	5/8
1/2	20	13	3/4
9/16	18	12	7/8
5/8	18	11	15/16
3/4	16	10	1 1/16

B75 WIRE HOSE CLAMP PLIER

Swivel jaws (tips) grooved to fit any size wire hose clamp. Finger tip positioner locks in three positions to keep wire clamps spread open, thus freeing both hands. High polish chrome plated. B75—Length: 7 3/4 inches. Weight: .406 lbs.



CS1

ENGINE SERVICE TOOLS

★CS1 FLEXIBLE CARBON SCRAPER

The flexibility of the tempered spring steel aids greatly in speeding up carbon scraping jobs. Flexibility controlled by sliding ferrule. Blade Width: 1 inch. Weight: .303 lbs.

★RC46-47 PISTON RING GROOVE CLEANERS

Removes carbon from ring grooves on pistons from two to five inches.

★RC46 (cutter wheel includes 3/32 inch, 1/8 inch, 5/32 inch, 3/16 inch blades). Weight: .519 lbs.

★RC47 (cutter wheel includes 5/64 inch, 3/32 inch, 5/32 inch, 3/16 inch blades). Weight: .525 lbs.

★RC41, 43, 44A, 45A PISTON RING COMPRESSORS

Compressor RC41 is held with a friction lock device, whereas RC43A, RC44A, and RC45A are of the ratchet type. All of these compressors are made of the finest steel available. Easy operating mechanism equipped with wind-up spool with 1/4 inch square drive socket and key. The RC41 can be used on power mowers, garden, and tractor motors.



RC41

RC45A

Number	Size	O.A. Length	Weight Lbs.
RC41	1½-3	Single Band	.306
RC43A Ratchet Type	2½-5	3½	.738
RC44A Ratchet Type	3½-7	3½	.813
RC45A Ratchet Type	3½-7	6½	1.638

RC160 ADJUSTABLE GLAZE BREAKER

Flexible shaft with adjustable controlled cutting pressure in open end or closed end type cylinders. The spread limiting adjustment permits easiest insertion in the cylinder bore or when changing from cylinder to cylinder. Spring action gives correct pressure for positive glaze breaking using either high or low speed electric drills. Two fast cutting abrasive stones combined with a felt oiler pad (on the third arm) give smooth glaze breaking action. Capacity: 2 inches to 5 1/4 inches. Weight: 1.125 lbs.

★RC161 Set of 2 Replacement Fine Grit Stones and 1 Felt Pad—3" Long—Wt. .250 lbs.

★RC162 Set of 2 Replacement Medium Grit Stones and 1 Felt Pad—3" Long—Weight .250 lbs.

★RC163 Set of 2 Replacement Coarse Grit Stones and 1 Felt Pad—3" Long—Weight .250 lbs.

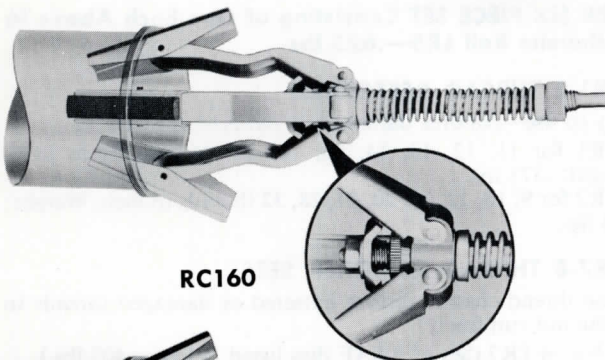
RC170 PRESET LARGE CAPACITY GLAZE BREAKER

Equipped with 4 inch stones. Similar in construction and action as the RC160. Preset tension with long resilient spring action and fast cutting medium grit, all purpose abrasive stones and felt pad gives perfect cylinder finish. Spread limiting adjusting for fast, easy insertion of the hone or for changing from cylinder to cylinder. Operated by high or low speed electric drills. 4 inch replacement stones and felts, RC171 and RC172, or unit may be used with 3 inch replacement stone and felt sets, RC161, RC162, and RC163. Capacity: 2 inches to 7 inches. Weight: 1.312 lbs.

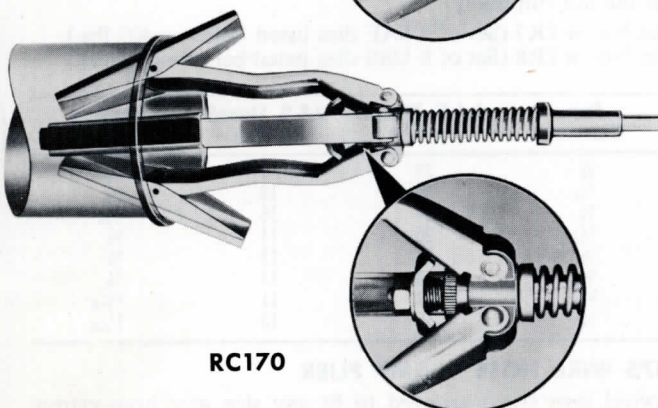
★RC171—2 Medium Grit Stones and 1 Felt Wiper—4" Long—Weight .312 lbs.

★RC172—2 Fine Grit Stones and 1 Felt Wiper—4" Long—Weight .312 lbs.

NOTE: Lubricate while honing or de-glazing cylinders. Use kerosene or light oil. Flexible shafts and abrasive stones are subject to abuse and, therefore, cannot be guaranteed. Brake fluid is also a satisfactory lubricant.



RC160



RC170

NOTE: For Volkswagen and Small Bore Engines: Reference should be made to RC150, page 43, using the RC151 Stones of 280 Grit.

ENGINE SERVICE TOOLS



2613 - 2617 CYLINDER HEAD WRENCHES, 1/2" SQUARE DRIVE

Recommended for use with Bonney torque wrenches. Drop forged alloy steel. Bright nickel chrome plate. Heads polished.

Number	Opening	O.A. Length	Weight Lbs.
2613	3/4	59/16	.444
2614	3/4	5 1/2	.688
2615	3/8	59/16	.441
2617	11/16	8 3/8	.825

★AH18V, ★†2571 CONNECTING ROD SOCKETS

★AH18V Connecting Rod Socket (Ford), (Old No. F18), 9/16 inch Opening, 6-Point. Length: 1 7/32 inches. Weight: .109 lbs.

★†2571 Connecting Rod Socket (Cadillac). Length: 1 3/8 inches. Weight: .134 lbs.

1163, ★†6508, ★†6509, ★6510, ★6511 DISTRIBUTOR WRENCHES

Incorporating correct bends to clear the many obstacles found on late model cars and in many cases where the distributor is located close to the fire wall. The following line of wrenches will reach practically all nuts for easy adjustment. 1163—9/16 inch Opening for Corvair and Tempest. Length: 6 11/16 inches. Weight: .181 lbs.

★†6508—9/16 inch Opening. Length: 16 3/8 inches. Weight: .671 lbs.

★†6509—1/2 inch Opening. Length: 18 3/8 inches. Weight: .687 lbs.

★†6510—1/2 inch Opening for Fords, Mercurys, Lincolns, Studebaker Larks, Cadillacs, Chrysler Imperials, Falcons, and Comet 6 Cylinder Cars. Length: 9 3/8 inches. Weight: .447 lbs.

★6511—1/2 inch Opening. Similar to No. 6510 but having handle bend at 90°. Has found favor with many mechanics. Length: 9 1/4 inches. Weight: .478 lbs.

★†V36 DISTRIBUTOR SOCKET

Designed for Chevrolet distributor and dashboard. Length: 1 3/8 inches. Weight: .038 lbs.

RC100 "C" CLAMP VALVE LIFTER

For spring diameters of 1 inch to 2 inches. This deep throat lifter designed for V8 car and truck engines with overhead valving. Lightweight and positive control. Supplied with medium offset general purpose jaws. *Note:* Jaws RC111 and RC113 may also be used with this model. Height: 9 3/4 inches. Width: 7 inches. Weight: 5.000 lbs.

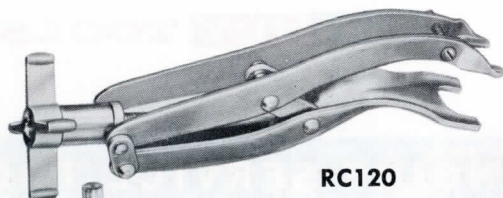
RC110 "C" CLAMP UNIVERSAL TYPE VALVE LIFTER

For spring diameters 1 inch through 2 1/2 inches. An efficient valve spring compressor for the stiffest of valve springs. Designed for use on automotive, truck, tractor, bus, and marine "L" head and valve in head engines. Easily adjusted for various valve stem lengths. Powerful leverage with pin operated screw and cam locking handle. Supplied with three pairs of spring handling jaws, RC111, RC112, and RC113. Height: 10 1/2 inches. Width: 9 1/2 inches. Weight: 6.000 lbs.

RC111 Small Straight Jaws for 7/8" to 1 7/8" Diameter (Pair)—Weight .250 lbs.

RC112 Medium Offset Jaws for 1" to 2" Diameter (Pair)—Weight .250 lbs.

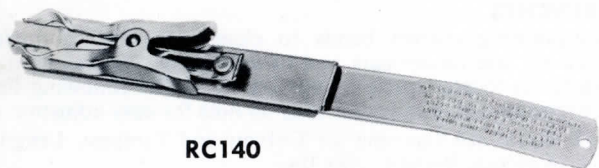
RC113 Large Straight Jaws for 1 1/2" to 2 1/2" Diameter (Pair)—Weight .250 lbs.



RC120



RC130



RC140

ENGINE SERVICE TOOLS

Valve Lifters, Key Replacer

RC120 SCREW TYPE VALVE LIFTER, Compact for "L" Head Engines

For "L" head engines having straight stemmed valves. This short, compact and rugged lifter will handle the job. Fast, easy lift with a few turns of the screw. Length: 9 inches. Weight: 1.250 lbs.

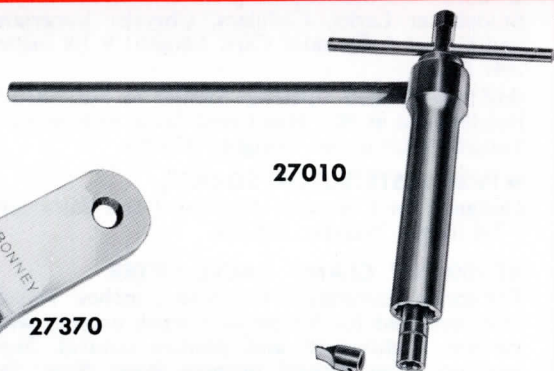
RC130 AIR POWERED "C" CLAMP VALVE LIFTER

A new, safe, fast acting, fully controlled "C" type valve lifter that compresses the heaviest springs. Controlled release, two finger control, one control compresses and one releases. Develops power of three times the line pressure (90 to 150 pounds). Parallel lift. Furnished with three sets of jaws for 7/8 inch to 2 1/2 inches diameter springs, RC111, RC112, and RC113. Easily handled. Height: 10 inches. Width: 9 inches. Weight: 6.500 lbs.

RC140 SPLIT TYPE VALVE KEY REPLACER

The efficient, easy way to replace tapered split locks on valve stems. Holds locks in position until spring is released. A finger saver in small areas and limited space. Works satisfactorily with all straight jaw valve lifters. Weight: .219 lbs.

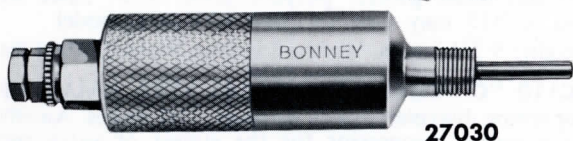
AUTOMATIC TRANSMISSION TOOLS



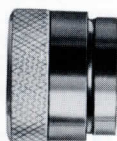
27010



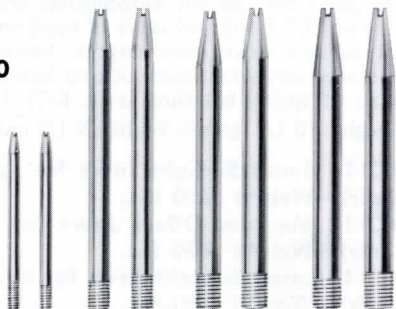
27370



27030



27090



27510 - 27540

Bonney provides a complete line of tools for the repair and adjustment of Automatic Transmissions. For detailed instructions for each tool, write for Catalogue ATT-1.

27010 "UNIVERSAL" BAND ADJUSTING TOOL

Band adjustments can be made in 15 minutes with this tool on Hydramatic, Ford-o-matic, Merc-o-matic, Dynaflo, Powerflite, and Powerglide. Weight: 2.312 lbs.

27030 FRONT SERVO GAGE

This tool is used to adjust the front band on hydramatic transmissions. Weight: .562 lbs.

27510 - 27540 ALIGNMENT PILOT PINS (Two Each Pins)

Proper alignment of bolt holes saves valuable time when installing transmissions.

27510—3/16 inch Diameter, 3 inches Long, No. 10 - 24 Thread. Weight: .062 lbs.

27520—1/2 inch Diameter, 5 inches Long, No. 1/2 - 13 Thread. Weight: .500 lbs.

27530—7/16 inch Diameter, 5 inches Long, No. 7/16 - 14 Thread. Weight: .380 lbs.

27540—3/8 inch Diameter, 5 inches Long, No. 3/8 - 16 Thread. Weight: .300 lbs.

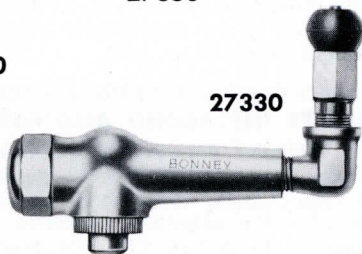
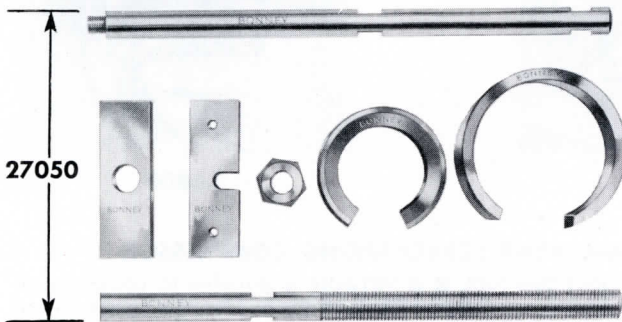
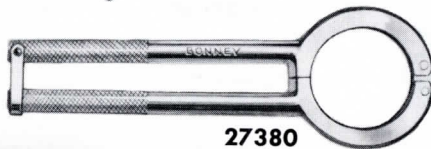
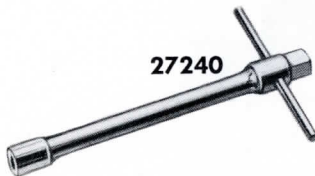
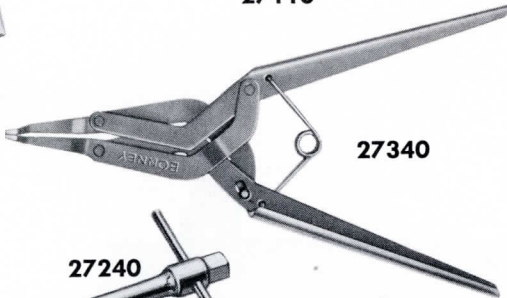
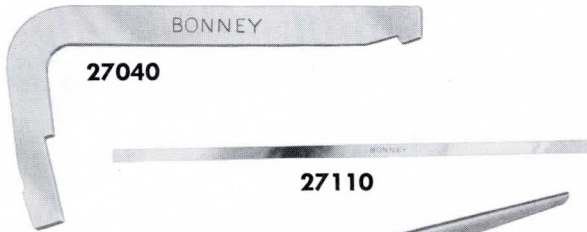
27090 HUB RETAINING BRACKET

Holds rear clutch hub in place, thus assuring proper installation with minimum time and effort. Weight: .125 lbs.

27370 GOVERNOR SLEEVE ALIGNER

Assures proper alignment of governor when assembling the transmission. Weight: .281 lbs.

AUTOMATIC TRANSMISSION TOOLS



27430 LIFTING TOOL

Designed basically to enable the mechanic to lift the clutch assembly without danger of injury. Weight: .250 lbs.

27020 BAND ADJUSTING GAGE

Used in conjunction with a TDR50-I Torque Wrench to tighten adjusting screws on Ford-o-matic and Merc-o-matic. Weight: .250 lbs.

27040 REAR SERVO GAGE

Used to adjust the rear servo on the hydramatic transmission. Weight: .125 lbs.

27110 SEAL INSTALLER

Designed to protect the reverse piston outer seal when installing the piston in the cylinder. Weight: .062 lbs.

27340 PARALLEL JAW PLIER

The unique design of these pliers enables the jaws to remain parallel when removing snap rings. Weight: .562 lbs.

27240 THROTTLE PRESSURE ADJUSTMENT WRENCH

Used in conjunction with the oil pressure gage (No. 27460) for accurate adjustment. Weight: .187 lbs.

27380 OIL DELIVERY SLEEVE RING COMPRESSOR

Prevents breakage of front clutch unit in assembly by compressing the oil seal rings on the oil delivery sleeve. Weight: .437 lbs.

27360 MAINSHAFT "END-PLAY" GUIDE

Essential for checking end-play of the transmission. Weight: 2.218 lbs.

27050 CLUTCH SPRING COMPRESSOR

"Universal" tool used to compress clutch springs in various transmissions. Weight: 8.375 lbs.

27070 DIAL INDICATOR HOLDER

Weight: .531 lbs.

27350 REAR UNIT HOLDER

Prevents rotation of the rear unit when loosening or tightening bolts. Fits over bolt heads and holds unit in place. Weight: .345 lbs.

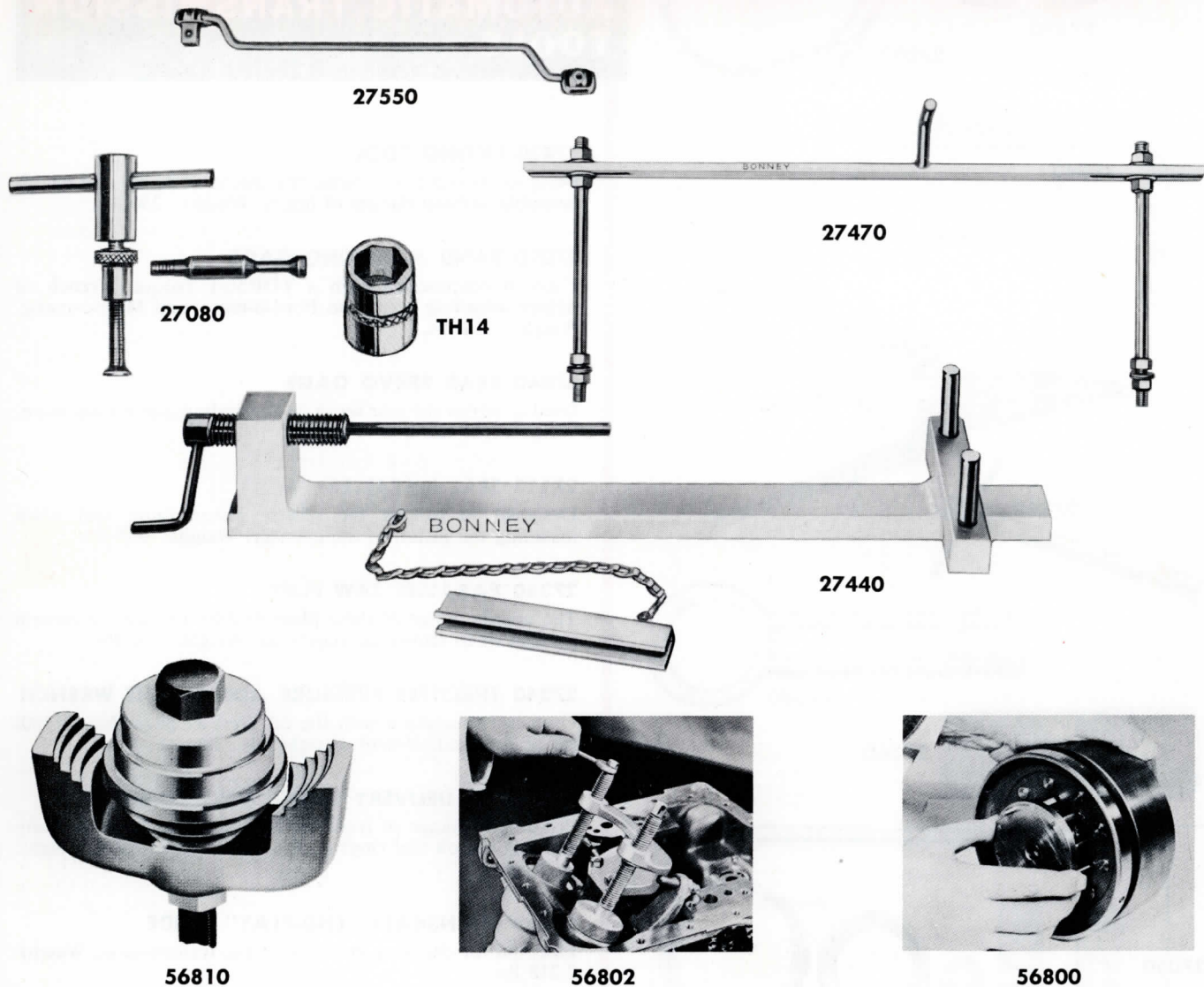
27460 OIL PRESSURE GAGE

Large easy-to-read, 3 1/2 inch dial face for greater accuracy in setting oil pressures on all automatic transmissions. Weight: 1.842 lbs.

27330 BLOW GUN

A really handy tool in overhaul work. For blowing out small oil passages. Weight: .500 lbs.

AUTOMATIC TRANSMISSION TOOLS



27550 TORQUE WRENCH EXTENSION

Used in conjunction with the TDR50-I Torque Wrench to enable easy adjustment of front band from under car. Weight: .250 lbs.

27470 TORUS COVER HUB CHECKING FIXTURE

Fits all models. Used in conjunction with a dial indicator. Weight: 1.750 lbs.

27080 SLEEVE REMOVER

Primarily intended for removing the oil delivery sleeve on Ford-o-matic. With the added fitting, the mechanic can also remove the line exhaust valve sleeve on hydramatic transmission. Weight: .218 lbs.

TH14 SINGLE HEXAGON BONNEY SOCKET

With this specially designed six point socket, drain plugs and aluminum fittings can be removed with little danger of damage. Weight: .044 lbs.

27440 REAR SERVO SPRING COMPRESSOR

Without this tool, it is virtually impossible to compress all the springs on the rear servo of the hydramatic transmission. Weight: 4.000 lbs.

56810 CLUTCH SPRING COMPRESSOR

This single tool with its multiple stepped compressor body services Chrysler Corporation cars equipped with Powerflite and Torque-Flite transmissions. Weight: 2.000 lbs.

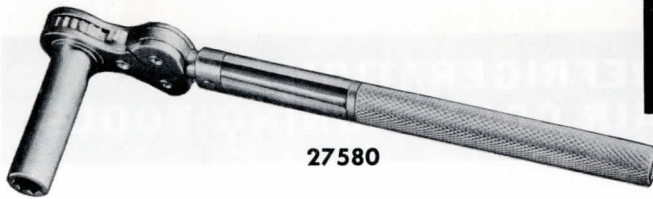
56802 SERVO SPRING COMPRESSOR

For Powerflite or Chrysler 3 speed automatic transmission in or out of car. Compresses both springs at single setting. Weight: 3.500 lbs.

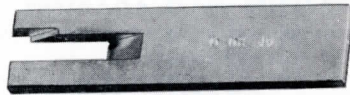
56800 OVER-RUNNING CLUTCH SPRING AND ROLLER INSTALLING AND ASSEMBLY GAUGE

For Chrysler Torque-Flite 3 speed automatic transmission. Gauge is essential for properly assembling springs and rollers in over-running clutch housing. Gauge is then imperative to allow the assembled clutch to be installed to the over-running clutch cam. This vital assembly operation is impossible without this gauge. Weight: .750 lbs.

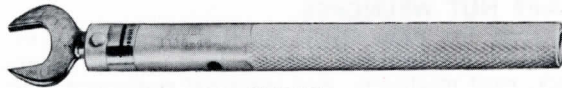
AUTOMATIC TRANSMISSION TOOLS



27580



27570



27560

27580 PRESET TORQUE RATCHET

This ratchet with 5/16 inch, 8-point socket opening, is preset to a torque of 10 foot pounds used to adjust front band (low) on the two speed Ford-o-matic. Equivalent to Ford No. T59P-77370-A. Weight: .625 lbs.

27570 ADJUSTING GAGE

Enables the mechanic to make simple, accurate adjustments of rear band (reverse) when used with No. 27560. Equivalent to Ford No. T59P-77409-A. Weight: .312 lbs.

27560 PRESET TORQUE RATCHET

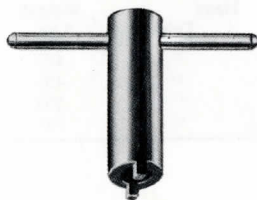
This tool has a preset torque of 48 inch pounds; used with the 27570 adjusting gage, this tool is designed to "click" as it overruns the torque setting. Rear band (reverse). Equivalent to Ford No. T59P-77423-A. Weight: .312 lbs.

27590 SET

Includes above three items in handy, leatherette container. Weight: 1.300 lbs.

REFRIGERATION AND AIR CONDITIONING TOOLS

Bonney provides a complete line of service tools to serve the growing needs of automotive, domestic, and commercial refrigeration and air conditioning. Thorough engineering and research and rigid quality control guarantees that each tool will do the job for which designed.



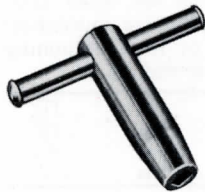
RF17-18



RF6-73



RF67



RF10-14



RF2 - 7

RF2 - 7 VALVE STEM SOCKETS

Same as "T" handle wrenches, RF10-14, but with 1/4 inch square male drive for use with Bonney 1/4 inch female ratchets, RF22 and RF45A. Alloy steel, heat treated, nickel chrome plated.

Number	Square Opening	Outside Diameter Nose	Diameter Shank	O.A. Length	Weight Lbs.
RF2	3/16	27/64	1/2	1 5/16	.062
RF5	7/32	1/2	1/2	1 5/16	.062
RF3	1/4	1/2	1/2	1 5/16	.062
RF4	5/16	9/16	9/16	1 5/16	.062
RF7	3/8	11/16	11/16	1 5/16	.093

RF17-18 PACKING GLAND WRENCHES (Sliding "T" Handle)

Furnished in two popular sizes with handy sliding "T" handle. Made from alloy steel, heat treated, bright nickel chrome finish.

Number	Diameter		Depth	Prong		O.A. Length	Weight Lbs.
	Inside	Outside		Width	Width		
RF17	21/64	15/32	1/8	7/64	7/64	2	.125
RF18	21/64	9/16	1/8	7/64	7/64	2	.156

RF6-73 PACKING GLAND NUT SOCKETS

Has 1/4 inch square male drive for use with RF22 or RF45A Bonney Ratchets or any ratchet handle with 1/4 inch female opening. RF71 fits Sporlan valve packing gland nut. Alloy steel, heat treated, nickel chrome plated.

RF6	3/8	5/8	1/8	1/8	1 5/16	.062
RF16	21/64	15/32	1/8	1/8	1 11/16	.047
RF71	5/16	7/16	3/32	3/32	1 9/16	.047
RF72	21/64	15/32	1/8	1/8	1 5/8	.047
RF73	3/8	5/8	1/8	1/8	1 5/8	.078

RF67 GLAND NUT SOCKET

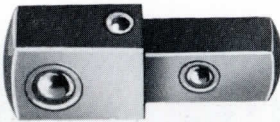
Specially designed for Kerotest and Imperial valve packing nuts. 1/4 inch male drive. Alloy steel, heat treated, nickel chrome plate.

Number	Oval Opening		O.D.	O.A. Length	Weight Lbs.
	Length	Width			
RF67	1/2	3/8	5/8	1 1/2	.078

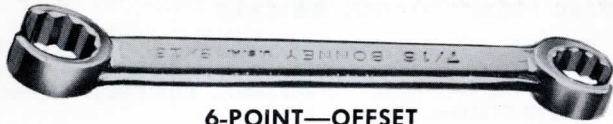
RF10-14 VALVE STEM WRENCHES (Sliding "T" Handle)

For square valve stems. Accurately broached. Sliding "T" Handle to clear obstructions. Alloy steel, heat treated, nickel chrome plated.

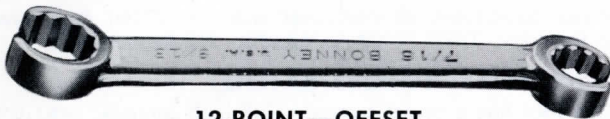
Number	Square Opening	Outside Diameter Nose	Diameter Shank	O.A. Length	Weight Lbs.
RF10	3/16	27/64	1/2	1 7/8	.140
RF11	7/32	27/64	1/2	1 7/8	.140
RF12	1/4	1/2	1/2	1 7/8	.156
RF13	5/16	9/16	9/16	1 7/8	.172
RF14	3/8	5/8	5/8	1 7/8	.187



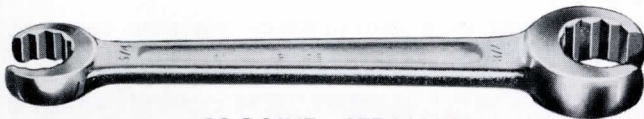
RF41, 49



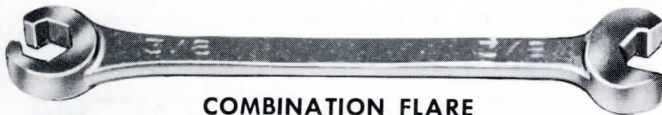
6-POINT—OFFSET



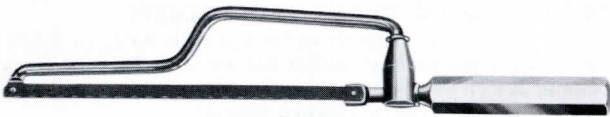
12-POINT—OFFSET



12-POINT—STRAIGHT



COMBINATION FLARE



2627



RF100B

REFRIGERATION AND AIR CONDITIONING TOOLS

RF41, 49 RATCHET PLUG ADAPTERS

Used to convert female drive refrigeration ratchets to either 1/4 inch or 3/8 inch male drive.

Number	Plug End	Drive End	Weight (Lbs.)
RF49	1/4	1/4	.031
RF41	1/4	3/8	.047

FLARE NUT WRENCHES

Designed for tube fitting applications such as vacuum, hydraulic, refrigeration, and fuel lines used on automotive, truck, road machinery, and industrial equipment. Each end is extra thick to avoid damage to soft, metal fittings.

6-POINT—OFFSET PATTERN

Each end offset at 15° to provide clearance in close quarters.

New Number	Old Number	Openings	O.A. Length	Slot	Head Thickness	Weight Lbs.
★EF1216H	★2612H	3/8-1/2	4 3/4	13/64-21/64	9/32-5/16	.109
★EF1418H	★2618H	7/16-9/16	5 1/16	17/64-25/64	5/16-11/32	.138
★EF2022H	★2630H	5/8-11/16	6	15/32-17/32	3/8-13/32	.213

12-POINT—OFFSET PATTERN

★EF1216	★2612	3/8-1/2	4 3/4	13/64-21/64	9/32-5/16	.109
★EF1418	★2618	7/16-9/16	5 1/16	17/64-25/64	5/16-11/32	.138
★EF2022	★2630	5/8-11/16	6	15/32-17/32	3/8-13/32	.213

12-POINT—STRAIGHT PATTERN

Number	Openings	O.A. Length	Slot	Head Thickness	Weight Lbs.
★RF54A	3/4-7/8	8	19/32-5/8	15/32-5/8	.488
★RF54	3/4-1	8	19/32-13/16	15/32-5/8	.456
★RF55A	7/8-1	9 1/2	5/8-13/16	17/32-3/4	.856
★RF55	7/8-1 1/8	9 1/2	5/8-25/32	17/32-3/4	.788

COMBINATION FLARE AND RATCHETING O.E. WRENCH

A new development in flare nut wrenches is the combination of a regular, 15° offset, 6-point box type flare nut opening at one end and a ratcheting 15° open end at the other end; both ends being exceptionally thick to minimize mutilation of fitting—box end for initial loosening or final tightening and open end for quick, easy ratcheting on and off.

★EF4012	3/8	5 1/4	13/64	23/64	.113
★EF4014	7/16	5 1/2	17/64	23/64	.132
★EF4016	1/2	6	21/64	23/64	.163
★EF4018	9/16	6 3/8	25/64	25/64	.219

2627 MIDGET (Close Quarter) HACKSAW FRAME

Designed to work in close places. Specially useful for refrigeration servicemen and plumbers. Handles only 6 inch blades (2627B). Length: 10 inches. Weight: .296 lbs.

2627B BLADES ONLY

6 inch blade for 2627 Frame. Package of 10. Weight: .065 lbs.

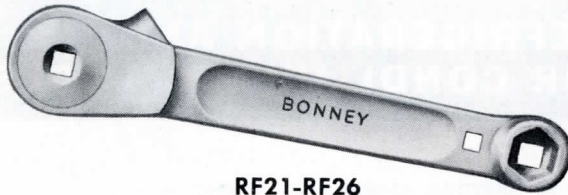
RF100B DOUBLE FLARING TOOL SET

Designed to produce 45° double flares on 3/16 inch, 1/4 inch, 5/16 inch, 3/8 inch, and 1/2 inch O.D. soft steel tubing up to .040 wall thickness. Will also form single flares on soft copper, aluminum, or brass tubing.

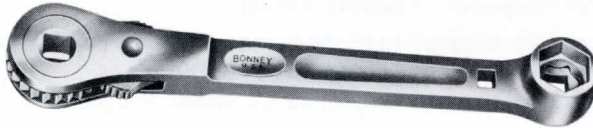
Forged steel yoke hardened and tempered for greater strength. Forcing cone has swivel action to reduce friction.

Bright plated finish. Packed in fitted, metal case. Weight: 3.250 lbs.

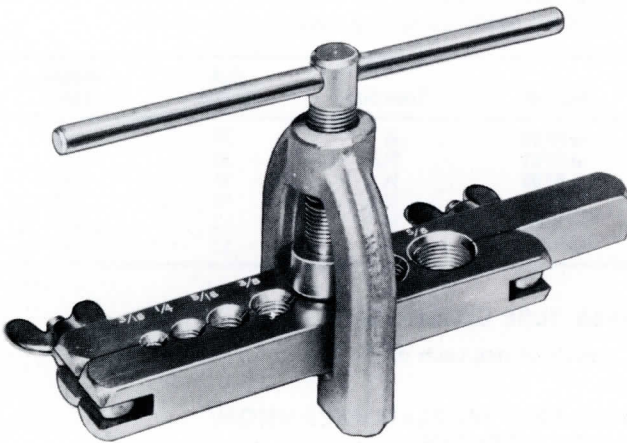
REFRIGERATION AND AIR CONDITIONING TOOLS



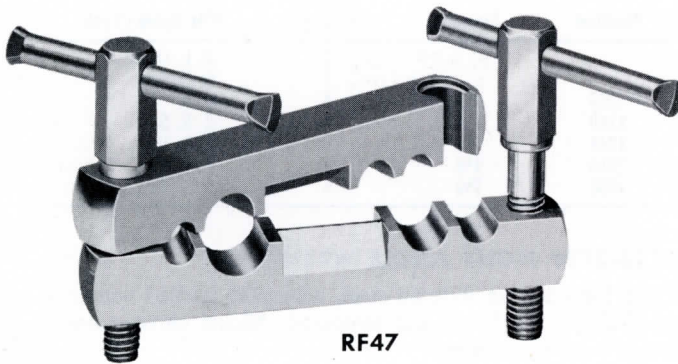
RF21-RF26



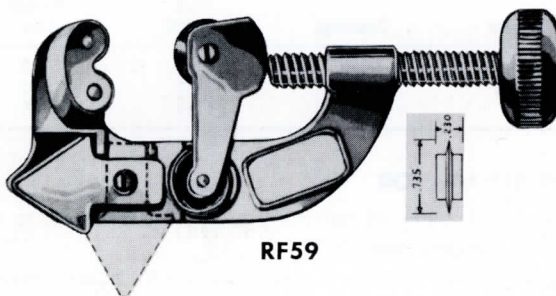
RF45A



RF46



RF47



RF59

RF21-RF26 NON-REVERSIBLE RATCHETS

Available in 5 different size openings. Forged from alloy steel with nickel chrome finish.

Number	4 Pt. Ratchet Opening	4 Pt. Handle Opening	6 Pt. Handle Opening	4 Pt. Handle Opening	O.A. Length	Weight Lbs.
RF21	3/16	3/16	1/2	1/4	6	.338
RF22	1/4	3/16	1/2	1/4	6	.338
RF23	5/16	3/16	1/2	5/16	6	.338
RF25	3/8	3/16	1/2	1/4	6	.322
RF26	5/16	3/16	1/2	1/4	6	.338

RF45A REVERSIBLE RATCHET

Designed for refrigeration work. Easy action, lightweight, streamlined, sturdy construction.

Number	Ratchet Opening 4 Pt.	Handle Openings 4 Pt. 6 Pt.	O.A. Length	Weight Lbs.
RF45A	1/4	3/16-1/4 1/2	6	.281

RF46 FLARING TOOL

Made of high grade steel carefully machined and heat treated for long, dependable life.

3/8 inch wide, 6 1/2 inches long. Capacity 3/16 inch to 5/8 inch. Plated finish. Shipping Weight: 2.038 lbs.

RF47 PINCH-OFF TOOL

Used primarily to pinch off tubing as well as restoring the tubing to correct shape after the service work is complete. Features a quick operating, freeing and locking action.

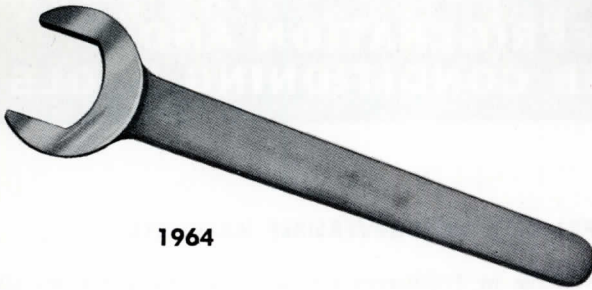
Width: 2 1/4 inches. Length: 4 inches. Capacity: 1/4 inch to 1/2 inch. Weight: .703 lbs.

★RF59 TUBE CUTTER

Cuts tubing from 1/8 inch to 1 inch O.D. Reamer held securely out of the way when not in use. Width: 2 inches. Length: 5 inches. Weight: .588 lbs. Bright nickel plated.

★RF59B—BLADE FOR RF59 CUTTER

REFRIGERATION AND AIR CONDITIONING TOOLS



1964

1964 SPECIAL OPEN END WRENCH (For "Superior" Packless Valve)

Especially designed to fit the hexagon on the auxiliary body of the "Superior" diaphragm packless valve.

Opening: 2 inches. Length: 12 1/4 inches. Weight: .950 lbs.



RF60-RF65

RF60-RF65 TUBE BENDERS

Ideal for bending copper and other tubing to any desired shape without danger of collapsing the tubing. Made of special oil hardened spring steel, chrome plated.

Number	Tube Size	O.A. Length	Weight Lbs.
★RF60	1/4	10	.156
★RF61	5/16	10	.187
★RF62	3/8	10	.247
★RF63	7/16	12	.384
★RF64	1/2	12	.438
★RF65	5/8	12	.531



1236-1252

RF66 TUBE BENDER SET

Consists of one each of the above.

1236-1252 SPORLAN EXPANSION VALVE WRENCHES

Special thin wrenches with heads at 30° angle for easy removal of the power elements from the body of Sporlan expansion valves.

Number	Opening	Element Number	Fits Valve (Type)
		2	D, L, O, Etc.
		7	W (Large)
1236	1 1/8	5	G, K
1240	1 1/4	8	C, R, S, T
1244	1 3/8	4	E, B, U, J
1248	1 1/2	3	P, H
1252	1 5/8	6	M, V, W (Small)



2723-2729

2723-2729 RIGHT ANGLE WRENCHES

Drop forged from selected steel, accurately milled openings, scientifically hardened and tempered. Nickel chrome finish, heads brightly polished.



P319

HEADS AT 90° ANGLES FOR SERVICE WORK

Number	Openings	O.A. Length	Weight Lbs.
2723	3/8 - 7/16	4 1/2	.119
2725B	1/2 - 9/16	5 1/2	.181
2729	5/8 - 3/4	7 1/2	.409

P319 SEPARATOR

Makes quick work of removing pulleys in tight places with this fork wedged separator.

Length: 11 1/4 inches. J opening: 1 1/8 inches. Weight: 1.625 lbs.

REFRIGERATION SETS



RF80B



RF81B

**RF80B BASIC REFRIGERATION SET
(21 Pieces—2.000 lbs.)**

Includes the most popular refrigeration sockets and attachments.

Number	Description	Number	Description
V8	1/4" 12-Pt. Socket	RF5	Valve Stem Socket
V9	9/32"	RF6	Packing Nut Socket
V10	5/16"	RF16	Packing Nut Socket
V11	11/32"	RF71	Packing Nut Socket
V12	3/8"	RF72	Packing Nut Socket
V14	7/16"	RF73	Packing Nut Socket
V730	4 1/2" Sliding "T" Handle	RF67	Kerotest Socket
V606	6" Extension	RF49	Adapter
RF2	Valve Stem Socket	RF45A	Reversible Ratchet
RF3	Valve Stem Socket	MB16	Metal Box, 7 1/2" x 3 1/4" x 1 1/8"
RF4	Valve Stem Socket		

**RF81B MASTER REFRIGERATION SET
(29 Pieces—4.125 lbs.)**

Includes the necessary sockets, handles, attachments and box end wrenches to enable the refrigeration serviceman to handle most repairs and adjustments.

V8	1/4" 12-Pt. Socket	RF4	Valve Stem Socket
V9	9/32"	RF5	Valve Stem Socket
V10	5/16"	RF6	Packing Nut Socket
V11	11/32"	RF16	Packing Nut Socket
V12	3/8"	RF71	Packing Nut Socket
V14	7/16"	RF73	Packing Nut Socket
V730	4 1/2" Sliding "T" Handle	RF67	Kerotest Socket
V606	6" Extension	RF49	Adapter, 1/4" x 1/4"
T606	6" Extension	RF41	Adapter, 1/4" x 3/8"
T16	1/2" 12-Pt. Socket	RF45A	Reversible Ratchet
T18	9/16"	2804	12-Pt. Box Wrench, 3/8" & 7/16"
T20	5/8"	2805	12-Pt. Box Wrench, 1/2" & 9/16"
T730	8" Sliding "T" Handle	2806C	12-Pt. Box Wrench, 5/8" & 1 1/16"
RF2	Valve Stem Socket	MB24	Metal Box, 8 5/8" x 5 3/4" x 1 1/4"
RF3	Valve Stem Socket		

INDUSTRIAL TOOLS Striking Face Box Wrenches



8807-8817A

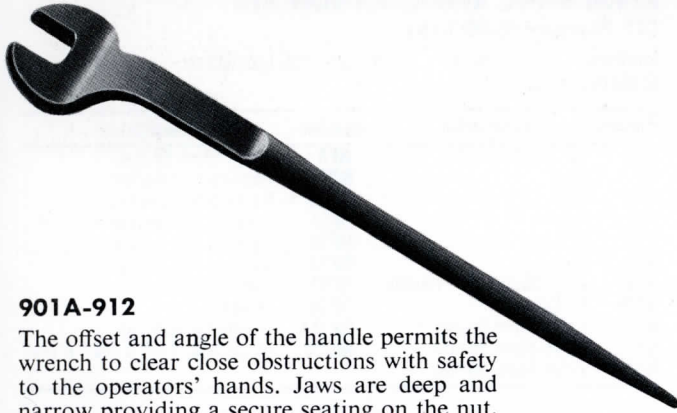
Heavy-duty wrenches designed for use with a hammer on assembly jobs where extra tightness is required or in maintenance work where shock treatment is needed to loosen frozen or rusted nuts. Made of heat treated alloy steel with accurate center broaching that assures uniform wall thickness. 45° offset feature permits use in hard-to-get-at places. Finished in baked enamel.

**8807-8817A STRIKING FACE BOX WRENCH
OFFSET PATTERN—12-POINT OPENING**

Number	Opening	Head		O.A. Length	Weight Lbs.
		Diameter	Thickness		
8807	1 1/16	1 11/16	1 3/16	10 1/2	2.1
8807A	1 1/8	1 11/16	1 3/16	10 1/2	2.1
8808	1 1/4	2	7/8	11	2.5
8808A	1 5/16	2	7/8	11	2.5
8809	1 7/16	2 3/16	1	11 1/2	3.4
8809A	1 1/2	2 3/16	1	11 1/2	3.4
8810	1 3/8	2 1/2	1 1/16	12	4.4
8810A	1 11/16	2 1/2	1 1/16	12	4.4
8811	1 13/16	2 7/8	1 1/8	12 1/2	5.5
8811A	1 7/8	2 7/8	1 1/8	12 1/2	5.5
8812	2	3	1 1/4	13	6.1
8813	2 3/16	3 3/8	1 3/8	13 1/2	8.6
8813A	2 1/4	3 3/8	1 3/8	13 1/2	8.6
8814	2 3/8	3 23/32	1 1/2	14	9.5
8815	2 9/16	4 5/16	1 3/4	15 1/4	12.5
8815A	2 5/8	4 5/16	1 3/4	15 1/4	12.0
8816	2 3/4	4 5/16	1 3/4	15 1/4	12.0
8816B	2 15/16	4 13/16	2	16 1/2	18.0
8817	3	4 13/16	2	16 1/2	17.5
8817A	3 1/8	4 13/16	2	16 1/2	17.0

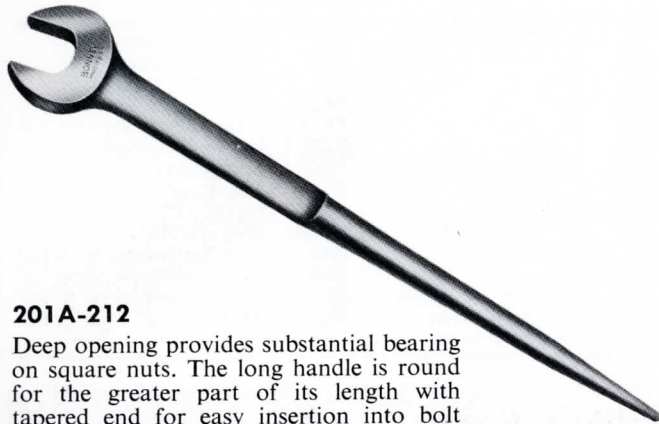
Ref.: Fed. Spec. GGG-W-00636c—Type 12.

INDUSTRIAL TOOLS
Structural Wrenches O.E.
Straight, O.E. 15° Angle, and
12 Point Box Openings



901A-912

The offset and angle of the handle permits the wrench to clear close obstructions with safety to the operators' hands. Jaws are deep and narrow providing a secure seating on the nut. Handles are round for the greater part of their length and tapered for easy insertion into bolt holes. The wrenches are exceptionally well-balanced.



201A-212

Deep opening provides substantial bearing on square nuts. The long handle is round for the greater part of its length with tapered end for easy insertion into bolt holes when bringing them into line.



8907-8916

Drop-forged from selected alloy steel. Heat treated. Finished in industrial gray. The long sturdy tapered handle provides ample strength and leverage and can easily be inserted into bolt holes to bring them into line.

Wrenches on this page are drop-forged. Milled. Hardened all over and shot blasted. Sizes stamped.

STRUCTURAL OPEN END (Carbon Steel)
STRAIGHT OPENINGS

Number	Opening	Head		O.A. Length	Handle At Head	Offset At End	Weight Lbs.
		Dia.	Thkns.				
901A	7/16	13/16	11/32	9 1/2	3/4	1 1/2	.32
901	1/2	13/16	11/32	9 1/2	3/4	1 1/2	.32
901B	9/16	13/16	11/32	9 1/2	3/4	1 1/2	.28
903A	5/8	1 1/16	7/16	12	13/16	1 11/16	.56
903	11/16	1 1/16	7/16	12	13/16	1 11/16	.56
904A	3/4	1 9/16	7/16	12	13/16	1 11/16	.50
905A	13/16	2	17/32	14 1/2	1 5/16	1 7/8	1.3
905	7/8	2	17/32	14 1/2	1 5/16	1 7/8	1.3
906	31/32	2	17/32	14 1/2	1 5/16	1 7/8	1.1
906B	1	2	17/32	14 1/2	1 5/16	1 7/8	1.1
907	1 1/16	2 1/4	5/8	17	1 1/16	2 3/8	1.8
907A	1 1/8	2 1/4	5/8	17	1 1/16	2 3/8	1.8
908	1 1/4	3	3/4	19 1/2	1 1/4	3 1/16	3.9
908A	1 5/16	3	3/4	19 1/2	1 1/4	3 1/16	3.9
909	1 7/16	3	3/4	19 1/2	1 1/4	3 1/16	3.6
909A	1 1/2	3	3/4	19 1/2	1 1/4	3 1/16	3.6
910	1 5/8	3 3/8	13/16	23	1 7/16	3 3/8	7.7
910A	1 11/16	3 3/8	13/16	23	1 7/16	3 3/8	7.7
911	1 13/16	3 3/8	13/16	23	1 7/16	3 3/8	7.5
911A	1 7/8	3 3/8	13/16	23	1 7/16	3 3/8	7.5
912	2	3 3/8	13/16	23	1 7/16	3 3/8	7.2

Ref.: Fed. Spec. GGG-W-00636c—Type 9—Class 1.

CONSTRUCTION WRENCHES 15° ANGLE
(Carbon Steel)

Number	Opening	Head		O.A. Length	Weight Lbs.
		Diameter	Thickness		
201A	7/16	13/16	3/8	9 1/2	.27
201	1/2	13/16	3/8	9 1/2	.27
201B	9/16	13/16	3/8	9 1/2	.25
203A	5/8	1 1/16	7/16	12	.62
203	11/16	1 1/16	7/16	12	.62
204A	3/4	1 9/16	7/16	12	.53
205A	13/16	2	17/32	14 1/2	1.2
205	7/8	2	17/32	14 1/2	1.2
206	31/32	2	17/32	14 1/2	1.0
206B	1	2	17/32	14 1/2	1.0
207	1 1/16	2 1/4	5/8	17	2.1
207A	1 1/8	2 1/4	5/8	17	2.1
208	1 1/4	2 5/8	11/16	19	3.7
208A	1 5/16	2 5/8	11/16	19	3.7
209	1 7/16	2 5/8	11/16	19	3.2
209A	1 1/2	2 5/8	11/16	19	3.2
210	1 5/8	4	1 5/16	25	7.5
210A	1 11/16	4	1 5/16	25	7.5
211	1 13/16	4	1 5/16	25	7.2
211A	1 7/8	4	1 5/16	25	7.2
212	2	4	1 5/16	25	7.0

STRUCTURAL BOX WRENCHES 12-PT. OPENINGS
(Selected Alloy Steel)

Number	Opening	Head		Handle At Head	Offset At End	O.A. Length	Weight Lbs.
		Dia.	Thkns.				
8907	1 1/16	1 11/16	13/16	1 5/16	2 9/64	15	2.1
8907A	1 1/8	1 11/16	13/16	1 5/16	2 9/64	15	2.1
8908	1 1/4	2	7/8	1 7/16	2 21/64	17	2.5
8908A	1 5/16	2	7/8	1 7/16	2 21/64	17	2.5
8909	1 7/16	2 3/16	1	1 1/2	2 3/4	21	3.8
8909A	1 1/2	2 3/16	1	1 1/2	2 3/4	21	3.8
8910	1 5/8	2 1/2	1 1/16	1 5/8	2 7/8	22	4.6
8910A	1 11/16	2 1/2	1 1/16	1 5/8	2 7/8	22	4.6
8911	1 13/16	2 3/4	1 1/8	1 11/16	3	23	5.8
8911A	1 7/8	2 3/4	1 1/8	1 11/16	3	23	5.8
8912	2	3	1 1/4	1 13/16	3 5/32	24 1/2	6.5
8913	2 3/16	3 3/8	1 3/8	2	3 1/2	26	8.4
8914	2 3/8	3 23/32	1 1/2	2 1/8	3 11/16	28	9.5
8915	2 9/16	3 29/32	1 5/8	2 1/4	3 13/16	30	10.6
8916	2 1/4	4 5/32	1 3/4	2 3/8	3 29/32	30	12.1

Ref.: Fed. Spec. GGG-W-00636c—Type 9—Class 2.

Number	Opening	Head		O.A. Length	Weight Lbs.
		Diameter	Thickness		
00	5/16	5/8	3/16	3 1/2	.08
700	3/8	13/16	9/32	4	.12
701	7/16	1	5/16	4 5/8	.16
1	1/2	1	5/16	4 5/8	.16
702	9/16	1 3/16	5/16	5 1/2	.19
703	5/8	1 3/8	11/32	6 3/8	.25
3	1 1/16	1 3/8	11/32	6 3/8	.25
704	3/4	1 9/16	3/8	7 1/4	.37
705	13/16	1 3/4	7/16	8 3/8	.50
5	7/8	1 3/4	7/16	8 3/8	.50
6	31/32	2	7/16	9 1/4	.75
706	1	2	7/16	9 1/4	.75
7	1 1/16	2 1/4	9/16	10 1/2	1.2
707	1 1/8	2 1/4	9/16	10 1/2	1.2
8	1 1/4	2 3/4	19/32	12	2.0
708A	1 3/8	2 3/4	19/32	12	2.0
9	1 7/16	3	5/8	13 1/2	2.2
709	1 1/2	3	5/8	13 1/2	2.2
10	1 5/8	3 1/2	7/8	15	3.5
10A	1 11/16	3 1/2	7/8	15	3.5
11	1 13/16	3 3/4	15/16	16 1/2	4.7
11A	1 7/8	3 3/4	15/16	16 1/2	4.7
12	2	4 1/8	1	18 1/4	6.2
12A	2 1/16	4 1/8	1	18 1/4	6.2
13	2 3/16	4 1/2	1 1/16	20	7.5
13A	2 1/4	4 1/2	1 1/16	20	7.5
14	2 3/8	4 5/8	1 1/8	22	9.6
14A	2 7/16	4 5/8	1 1/8	22	9.6
15	2 9/16	5 1/4	1 3/16	24	13.2
15A	2 5/8	5 1/4	1 3/16	24	13.2
16	2 3/4	6	1 1/4	27	16.0
16B	2 13/16	6	1 1/4	27	16.0
16A	2 15/16	6	1 1/4	27	16.0
17A	3	6 3/8	1 1/2	30	23.7
17	3 1/8	6 3/8	1 1/2	30	23.7
18A	3 3/8	7 1/2	1 5/8	34	31.6
18	3 1/2	7 1/2	1 5/8	34	31.6
19B	3 3/4	8	1 3/4	37	33.0
19	3 7/8	8	1 3/4	37	33.0
19C	4 1/8	8	1 3/4	37	32.5
19A	4 1/4	8	1 3/4	37	32.0
20B	4 1/2	10 1/4	1 7/8	42	50.5
20	4 5/8	10 1/4	1 7/8	42	50.5
20A	5	10 1/4	1 7/8	42	50.4

Ref.: Fed. Spec. GGG-W-00636c—Type 5.

DOUBLE HEAD 15° ANGLE

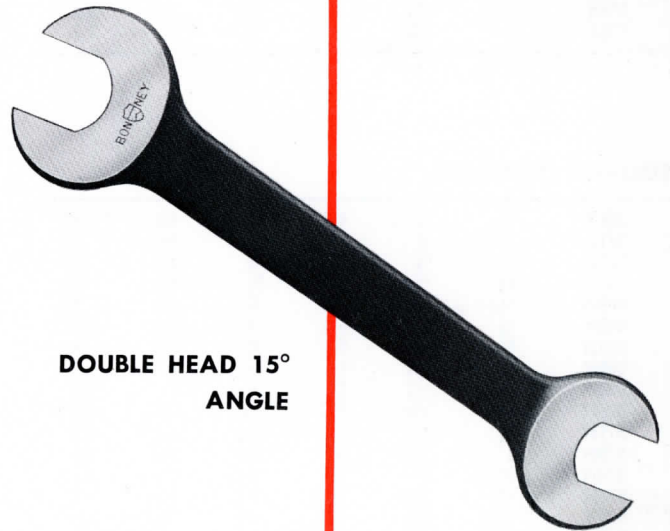
Number	Openings	Head		O.A. Length	Weight Lbs.
		Diameter	Thickness		
721	5/16 & 3/8	5/8 & 13/16	1/4	4	.07
723	3/8 & 7/16	27/32 & 11/32	9/32	4 5/8	.12
725	7/16 & 1/2	1 & 1 1/4	5/16	5 1/2	.25
725A	7/16 & 9/16	1 & 1 1/4	5/16	5 1/2	.25
725B	1/2 & 9/16	1 & 1 1/4	5/16	5 1/2	.25
25	1/2 & 19/32	1 & 1 1/4	5/16	5 1/2	.25
727	9/16 & 5/8	1 1/4 & 1 3/8	11/32	6 1/2	.31
27	19/32 & 11/16	1 1/4 & 1 3/8	11/32	6 1/2	.31
27B	5/8 & 11/16	1 1/4 & 1 3/8	11/32	6 1/2	.31
729	5/8 & 3/4	1 3/8 & 1 5/8	3/8	7 1/2	.50
29B	11/16 & 3/4	1 3/8 & 1 5/8	3/8	7 1/2	.50
29C	11/16 & 13/16	1 3/8 & 1 5/8	3/8	7 1/2	.50
731	3/4 & 13/16	1 5/8 & 1 3/4	3/8	8 1/2	.62
731A	3/4 & 7/8	1 5/8 & 1 3/4	3/8	8 1/2	.62
33A	7/8 & 15/16	1 3/4 & 2	7/16	9 1/2	.87
733	7/8 & 1	1 3/4 & 2	7/16	9 1/2	.87
33C	19/16 & 1	1 3/4 & 2	7/16	9 1/2	.87
34	7/8 & 1 1/16	2 & 2 1/4	1/2	10 3/4	1.2
34A	15/16 & 1 1/16	2 & 2 1/4	1/2	10 3/4	1.2
735	1 & 1 1/8	2 & 2 1/4	1/2	10 3/4	1.2
36B	1 1/16 & 1 1/8	2 1/4 & 2 5/16	9/16	12	1.5
37	1 1/16 & 1 1/4	2 1/4 & 2 5/16	9/16	12	1.5
737	1 1/8 & 1 1/4	2 1/4 & 2 5/16	9/16	12	1.5
37A	1 1/8 & 1 5/16	2 1/4 & 2 5/16	9/16	12	1.5
39B	1 1/4 & 1 5/16	2 5/8 & 3	5/8	13 1/2	2.3
39	1 1/4 & 1 7/16	2 5/8 & 3	5/8	13 1/2	2.3
39C	1 3/8 & 1 7/16	2 5/8 & 3	5/8	13 1/2	2.3
41B	1 1/2 & 1 5/8	3 & 3 1/2	3/4	15 3/4	3.5
44A	1 11/16 & 1 7/8	4 & 4 1/2	13/16	19	7.5
47	2 & 2 3/16	4 1/8 & 4 5/8	1 1/32	21	9.5
49	2 3/16 & 2 3/8	4 3/8 & 5 3/8	1 1/8	22	12.5
49A	2 1/4 & 2 7/16	4 3/8 & 5 3/8	1 1/8	22	12.5

**INDUSTRIAL TOOLS
Engineers
Open End Wrenches
Single and
Double Head 15° Angle**

Drop-forged from selected high grade carbon steel. Processed by improved methods. Openings milled or broached to standard industry tolerances. Hardened. Surface and edges smooth. Sizes stamped on bright polished heads. Baked black enamel finish.



SINGLE HEAD 15° ANGLE



DOUBLE HEAD 15° ANGLE



INDUSTRIAL TOOLS

Check Nut or Thin O.E. Wrenches and Set Screw O.E. Wrenches

**"T" HANDLE STRAIGHT SOCKET WRENCHES
(Carbon Steel)**

Drop-forged. Hardened. Broached openings. Smooth black enameled finish. Head faces bright. Hex end of shank fits other wrenches. Removable pin-handle.

HEX OPENINGS

Number	Opening	Dia. Head	O.A. Length	Size Hex Handle End	Length of Pin Handle	Weight Lbs.
961A	5/16	1/2	4 1/4	13/32	4 1/2	.12
962D	3/8	5/8	4 1/2	17/32	4 1/2	.20
963D	7/16	11/16	4 7/8	5/8	4 1/2	.26
964A	1/2	3/4	5 1/4	11/16	5 1/2	.37
965D	9/16	7/8	5 3/4	3/4	5 1/2	.50
966D	5/8	1	6 1/8	3/4	6 1/8	.70
967A	11/16	1 1/8	6 1/2	7/8	6 1/8	.90
967D	3/4	1 1/8	6 1/2	7/8	6 1/8	.90
968D	13/16	1 1/4	7	7/8	7	1.1
969A	7/8	1 3/8	7 3/8	7/8	7	1.3
970S	15/16	1 1/2	7 7/8	1 1/16	7 7/8	1.7
970D	1	1 1/2	7 7/8	1 1/16	7 7/8	1.7
971A	1 1/16	1 5/8	8 1/4	1 1/8	8 1/4	2.2
971D	1 1/8	1 5/8	8 1/4	1 1/4	8 1/4	2.2
973A	1 1/4	1 7/8	9 1/8	1 1/4	9	3.2
973B	1 5/16	1 7/8	9 1/8	1 1/4	9	3.2
975A	1 7/16	2 1/8	10	1 1/16	10	4.1
975D	1 1/2	2 1/8	10	1 1/16	10	4.1
976A	1 5/8	2 3/8	10 3/8	1 5/8	10 3/8	5.2
976B	1 11/16	2 3/8	10 3/8	1 5/8	10 3/8	5.2
977A	1 13/16	2 5/8	10 7/8	1 5/8	10 7/8	6.5
978A	2	2 7/8	11 3/8	1 3/4	11	7.2

SQUARE OPENINGS

Number	Opening	Dia. Head	O.A. Length	Size Hex Handle End	Length of Pin Handle	Weight Lbs.
961H	3/16	1/2	4 1/4	5/8	4 1/4	.12
961J	1/4	1/2	4 1/4	5/8	4 1/4	.12
962H	5/16	5/8	4 1/2	5/8	4 1/2	.20
963H	3/8	11/16	4 7/8	5/8	4 7/8	.30
965H	7/16	7/8	5 3/4	7/8	5 3/4	.53
966H	1/2	1	6 1/8	7/8	6 1/8	.62
967H	9/16	1 1/8	6 1/2	7/8	6 1/2	.90
968H	5/8	1 1/4	7	7/8	7	1.1
968P	11/16	1 1/4	7	7/8	7	1.1
969H	3/4	1 3/8	7 3/8	7/8	7 3/8	1.2
971H	7/8	1 5/8	8 1/4	1 1/4	8 1/4	2.2
973H	1	1 7/8	9 1/8	1 1/4	9 1/8	2.6
974H	1 1/8	2	9 1/2	1 7/16	9 1/2	3.8
976H	1 1/4	2 3/8	10 3/8	1 5/8	10 3/8	5.2
977X	1 7/16	2 5/8	10 7/8	1 5/8	10 7/8	6.5
977P	1 1/2	2 5/8	10 7/8	1 3/4	10 7/8	8.0

Ref.: GGG-W-00641c—Type 1, Class 2.

Drop-forged from selected high grade carbon steel. Processed by improved methods. Openings milled or broached to standard industry tolerances. Hardened. Surface and edges smooth. Sizes stamped on bright polished heads. Baked black enamel finish.

15° ANGLE SINGLE HEAD

For Check, Jam, Lock Nuts, etc.

Number	Opening	Diameter	Head Thickness	O.A. Length	Weight Lbs.
601A	7/16	1	1/8	4	.05
601	1/2	1	1/8	4	.05
602A	9/16	1 1/4	5/32	4 1/2	.12
602	19/32	1 1/4	5/32	4 1/2	.12
603A	5/8	1 1/2	3/16	5 1/8	.18
603	11/16	1 1/2	3/16	5 1/8	.18
604A	3/4	1 5/8	7/32	6 1/8	.25
604	25/32	1 5/8	7/32	6 1/8	.25
605A	13/16	1 3/4	1/4	6 5/8	.28
605	7/8	1 3/4	1/4	6 5/8	.28
606	31/32	2	9/32	7 1/2	.37
606B	1	2	9/32	7 1/2	.37
607	1 1/16	2 7/16	5/16	8 1/2	.70
607A	1 1/8	2 7/16	5/16	8 1/2	.70
608	1 1/4	2 5/8	3/8	10	1.1
608A	1 5/16	2 5/8	3/8	10	1.1
609	1 7/16	3 3/8	7/16	11 3/8	1.5
609A	1 1/2	3 3/8	7/16	11 3/8	1.5
610	1 5/8	3 7/16	1/2	13	2.1
610A	1 11/16	3 7/16	1/2	13	2.1

Ref.: Fed. Spec. GGG-W-00636c—Type 17—Class 4.

15° ANGLE DOUBLE HEAD

For Check, Jam, Lock Nuts, etc.

Number	Openings	Diameter	Head Thickness	O.A. Length	Weight Lbs.
623D	7/16 & 1/2	1 & 1 3/16	1/8	4 1/2	.12
624B	1/2 & 9/16	1 & 1 3/16	1/8	4 1/2	.12
626S	9/16 & 5/8	1 1/4 & 1 7/16	5/32	5 1/2	.18
627	19/32 & 11/16	1 1/4 & 1 7/16	5/32	5 1/2	.16
630B	3/4 & 13/16	1 9/16 & 1 13/16	3/16	7	.25
630E	3/4 & 7/8	1 9/16 & 1 13/16	3/16	7	.23
632C	7/8 & 15/16	2 & 2 1/4	1/4	8 1/2	.50
634A	7/8 & 1	2 & 2 1/4	1/4	8 1/2	.45
635D	1 & 1 1/8	2 5/8 & 2 5/8	5/16	10 1/2	1.0
637	1 1/16 & 1 1/4	2 3/8 & 2 5/8	5/16	10 1/2	1.0
637A	1 1/8 & 1 3/16	2 3/8 & 2 5/8	5/16	10 1/2	1.0
639	1 1/4 & 1 7/16	2 5/8 & 3 3/8	3/8	12 1/2	1.5
640A	1 5/16 & 1 1/2	2 5/8 & 3 3/8	3/8	12 1/2	1.5

Ref.: Fed. Spec. GGG-W-00636c—Type 17—Class 1.

22 1/2° ANGLE DOUBLE HEAD

For Set Screws, Square Cap Screws and Nuts

Number	Opening	Diameter	Head Thickness	O.A. Length	Weight Lbs.
525	5/16 & 1/4	1 1/16 & 27/32	9/32	4 1/4	.13
527	3/16 & 3/8	1 & 1 5/16	11/32	5	.18
529	3/8 & 7/16	1 1/4 & 1 3/8	3/8	5 3/4	.25
531	7/16 & 1/2	1 3/8 & 1 5/8	7/16	6 3/8	.40
533	1/2 & 9/16	1 5/8 & 1 3/4	1/2	7 1/2	.62
541	7/8 & 1	2 5/8 & 3	3/4	12 1/2	2.4
543	1 & 1 1/8	3 & 3 1/2	1 3/16	14	3.6

Ref.: Fed. Spec. GGG-W-00636c—Type 7.

INDUSTRIAL TOOLS
Offset Socket Wrenches
and Spanners (Carbon Steel)



HEX OPENINGS—OFFSET SOCKET WRENCHES

Number	Opening	Handle Offset In Clear From Face of Wrench	Diameter Head	O.A. Length	Weight Lbs.
261A	5/16	13/16	1/2	3 3/8	.12
262D	3/8	1	5/8	3 3/8	.18
263D	7/16	1 1/8	1 1/16	4 7/16	.25
264A	1/2	1 1/4	3/4	5 1/8	.45
265D	9/16	1 7/16	7/8	5 7/8	.50
266D	5/8	1 9/16	1	6 1/4	.58
267A	1 1/16	1 9/8	1 1/8	6 3/4	.87
267D	3/4	1 5/8	1 1/8	6 3/4	.87
268D	13/16	2	1 1/4	7 1/2	.94
269A	7/8	2 1/4	1 3/8	8 3/8	1.2
270S	1 5/16	2 1/4	1 1/2	9 1/8	1.5
270D	1	2 7/16	1 1/2	9 3/8	1.5
271A	1 1/16	2 3/4	1 5/8	10	1.7
271D	1 1/8	2 3/4	1 5/8	10	1.7
273A	1 1/4	3	1 7/8	11 5/8	2.6
273B	1 5/16	3	1 7/8	11 3/8	2.6
275A	1 7/16	3 1/4	2 1/8	13 1/4	3.8
275D	1 1/2	3 1/4	2 1/8	13 1/4	3.8
276A	1 5/8	3 1/2	2 3/8	14 7/8	5.3
276B	1 11/16	3 1/2	2 3/8	14 7/8	5.3
277A	1 13/16	4	2 5/8	16 1/2	6.7
278A	2	4 1/2	2 7/8	18 1/4	8.7

Ref.: Fed. Spec. GGG-W-00641c—Type 1—Class 1.

SQUARE OPENING—OFFSET SOCKET WRENCHES

Number	Opening	Handle Offset In Clear From Face of Wrench	Diameter Head	O.A. Length	Weight Lbs.
261J	1/4	13/16	1/2	3 3/8	.12
262H	5/16	1	5/8	3 3/8	.15
263H	3/8	1 1/8	1 1/16	4 7/16	.25
265H	7/16	1 1/8	7/8	5 7/8	.45
266H	1/2	1 1/4	1	6 1/4	.50
267H	9/16	1 7/16	1 1/8	6 3/4	.90
268H	5/8	1 9/16	1 1/4	7 1/2	1.0
268P	1 1/16	1 9/8	1 1/4	7 1/2	1.0
269H	3/4	1 5/8	1 3/8	8 3/8	1.2
271H	7/8	2 1/4	1 5/8	10	1.7
273H	1	2 7/16	1 7/8	11 5/8	2.7
274H	1 1/8	2 3/4	2	12 3/8	3.2
276H	1 1/4	3	2 3/8	14 7/8	5.3

PIN SPANNER

Single Pin design to be used in one of the notches of a round nut. Pins integrally forged with wrench.

Number	Diameter of Circle	Diameter of Pin	Length of Pin	O.A. Length	Weight Lbs.
452	1	3/16	3/16	4	.05
453	1 1/4	13/64	3/16	4 1/2	.10
454	1 1/2	7/32	7/32	5	.13
455	1 3/4	15/64	7/32	5 1/2	.18
456	2	1/4	1/4	6	.23
457	2 1/4	17/64	1/4	6 1/2	.25
458	2 1/2	9/32	9/32	7	.31
459	2 3/4	19/64	9/32	7 1/2	.37
460	3	5/16	5/16	8	.43
461	3 1/4	21/64	5/16	8 1/2	.50
462	3 1/2	11/32	5/16	9	.57
463	3 3/4	23/64	3/8	9 1/2	.66
464	4	3/8	7/16	10	.76
466	5	7/16	7/16	12	1.0
468	6	1/2	1/2	14	1.5

Ref.: Fed. Spec. GGG-W-665—Type 2—Grade A.

REGULAR "C" CLAMPS

Number	Maximum Opening	Minimum Opening	Recessed Opening	Width	Length	Weight Lbs.
CC402	2	0	1 1/4	3 7/16	6 5/16	1.500
CC403	3	0	2	3 5/8	8 5/16	2.500
CC404	4	0	2 3/8	4 1/2	9 11/16	3.000
CC406	6	0	3	5 3/4	12	3.562

ADJUSTABLE HOOK SPANNER

The Adjustable Hook Spanner is strong—easily adjustable to a wide range of sizes. Ideal for use with spindle bearings or for adjusting the collars and slotted rings used on many automatic machines.

Number	Diameter Circle	Thkns. Handle	Thkns. Hook	Depth Hook	O.A. Length	Weight Lbs.
471	3/4 to 2	1/4	11/32	1/8	6 3/8	.25
472	1 1/4 to 3	9/32	13/32	5/32	8 7/8	.44
474	2 to 4 3/4	5/16	15/32	3/16	11 3/8	.95
474A	4 1/2 to 6 1/4	5/16	15/32	1/4	12 1/8	1.1

Ref.: Fed. Spec. GGG-W-665—Type 3—Class 1.

ADJUSTABLE FACE SPANNER

The Adjustable Face Spanner is used like the Face Spanner shown above, but, because it is adjustable, a single Spanner may be used with a number of round nuts of various sizes.

Number	Extreme Capacity	Diameter Pin	Length Pin	O.A. Length	Weight Lbs.
482	2	3/16	1/4	6 3/8	.25
483	3	1/4	1/4	8 1/4	.50
484	4	5/16	1/2	10 3/8	1.0

Ref.: Fed. Spec. GGG-W-665—Type 1—Class 1.



MASTER TOOL SETS

SET NO. MB101 CONTAINING 1/4", 3/8", AND 1/2" DRIVE SOCKETS, ATTACHMENTS, AND MISCELLANEOUS TOOLS (155 Pieces — 105.000 lbs.)

A master tool set having all items described in Set No. MB100 plus necessary tools required by the master mechanic. This set also includes screw drivers, pliers, hacksaw, hammers, chisels, and punches.

The MB82 Metal Chest, 26 inches wide x 14 1/2 inches high x 12 1/8 inches deep with tote tray, 18 1/2 inches wide x 7 3/8 inches deep, provides ample capacity in its six drawers for all tools listed. Tools nest together in orderly manner leaving ample room for further expansion as desired.

These are all first line Bonney tools as listed elsewhere in this catalogue.

CONTENTS OF SET NO. MB101

1/4 Inch Drive Sockets and Attachments in Separate Box

No.	Description
V6	3/16" 12-Pt. Socket
V7	7/32"
V8	1/4"
V9	9/32"
V10	5/16"
V11	11/32"
V12	3/8"
V14	7/16"
V16	1/2"
VS8	1/4" 8-Pt. Socket
VS10	5/16"
V730	Sliding "T" Handle
V606	6" Extension
V602	2" Extension
V780	6" Spin Handle
V720	Hinge Handle
V701	Reversible Ratchet
MB12	Metal Box, 6" x 4" x 1"

1/2 Inch Drive Sockets and Attachments

No.	Description
A12	3/8" 12-Pt. Socket
A14	7/16"
A16	1/2"
A18	9/16"
A20	5/8"
A22	11/16"
A24	3/4"
A26	13/16"
A28	7/8"
A30	15/16"
A32	1"
A34	1 1/16"
A36	1 1/8"
A38	1 3/16"
A40	1 1/4"
A42	1 5/16"
A722	Hinge Handle
A775	Cross Bar
A730	Sliding "T" Handle
A602	2" Extension
A605	5" Extension
A610	10" Extension
A760	Universal Joint
A744	19" Speeder Handle
AA707	Reversible Ratchet

Open End Wrenches

E810	1/4" & 5/16" O.E. Wrench
E1214	3/8" & 7/16"
E1618	1/2" & 9/16"
E2022	5/8" & 11/16"
E2426	3/4" & 13/16"
E2830	7/8" & 15/16"
LR56	Leatherette Roll
H10	3/16" & 7/32" Miniature O.E. Wrench
H12	1/4" & 9/32"
H14	5/16" & 11/32"
H16	3/8" & 7/16"
H18	13/32" & 15/32"
LR24	Leatherette Roll

3/8 Inch Drive Sockets and Attachments

TH12	3/8" 6-Pt. Socket
TH14	7/16"
TH16	1/2"
T18	9/16" 12-Pt. Socket
T20	5/8"
T22	11/16"
T24	3/4"
T775	Cross Bar
T720	Hinge Handle
T603	3" Extension
TT707	Reversible Ratchet

1/2 Inch Drive Sockets and Attachments

No.	Description
Open End Wrenches—Continued	
E422	1/2" & 9/16" Tappet Wrench
E424	5/8" & 11/16"
E426	3/4" & 7/8"
E14	13/64" & 15/64" O.E. Wrench, Electricians'
E16	15/64" & 13/64"
E18	7/32" & 1/4"
E20	1/4" & 7/32"
E22	9/32" & 5/16"
E24	5/16" & 9/32"
E26	11/32" & 3/8"
E28	3/8" & 11/32"
E30	7/16" & 1/2"
LR28	Leatherette Roll

Box Wrenches

2804L	3/8" & 7/16" Long Type 12-Pt. Dbl. Offset Box Wrench
2805L	1/2" & 9/16"
2807A	5/8" & 11/16"
2808F	3/4" & 13/16"
2809	7/8" & 15/16"
LR97	Leatherette Roll

Chisels & Punches

C2N	3/8" Flat Cold Chisel
C3	5/8"
C4	3/4"
C5	7/8"
C6	1"
C12	1/4" Cape Chisel
C13	3/8"
C15	1/4" Diamond Point Chisel
C16N	3/8"
C28	1/8" Pin Punch
C29	3/16"
C30	1/4"
C34	Center Punch
LR96	Leatherette Roll

CONTENTS OF SET NO. MB101 — Continued

Pliers, Screw Drivers & Hammers

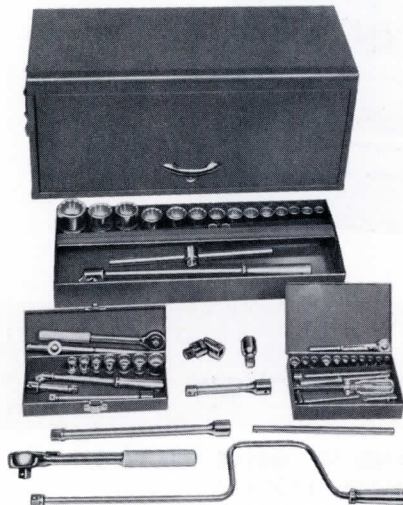
No.	Description
B17	Diagonal Cutting Pliers
B29	Mechanic's Combination Pliers
B23	Lineman's Pliers
B35	Rib Joint Ignition Pliers
B38	Combination Pliers
B45	Rib Joint Pliers
PH6	Ball Pein Hammer, 12 Oz.
PH17	Soft Face Hammer, 1½ Oz.
PH20	Soft Face Hammer, 16 Oz.
PH30	Rubber Mallet, 28 Oz.
001-2	Electrical Screw Driver
0010	Electrical Screw Driver
006	Electrical Screw Driver
08	Standard Tip Screw Driver
SO1	Stubby Screw Driver
012	Standard Tip Screw Driver

Screw Drivers, Gauges & Miscellaneous Tools

No.	Description
E03	Spark Test Screw Driver
CP2	Phillips Screw Driver
0670	Offset Screw Driver
2591	Stud Puller
K52	Ignition Feeler Gauge
K57	Spark Plug Gauge
K8	Holding Pickup Tool
K53	Universal Master Feeler Gauge
2628	Hacksaw
SE1	3/16" - 1/4" Screw Extractor
SE2	1/4" - 5/16"
SE3	5/16" - 7/16"
LR5	L. Roll
F1218	Hacksaw Blades—Package of 10
SE4	7/16" - 9/16" Screw Extractor
SE5	9/16" - 3/4"
SE6	3/4" - 1"

Hex Keys & Spark Plug Socket

No.	Description
AW	.028" Hex Key
AW0	.035"
AW1	.050"
AW2	1/16"
AW2½	5/64"
AW3	3/32"
AW3½	7/64"
AW4	1/8"
AW4½	9/64"
AW5	5/32"
AW6	3/16"
AW7	7/32"
AW8	1/4"
AW10	5/16"
AW12	3/8"
	Plastic Pouch
TLH26R	3/8" Drive Spark Plug Socket



MASTER TOOL SETS Continued

SET NO. MB100 (56 Pieces — 52.187 lbs.)

A basic, master set containing the three most popular drives 1/4 inch, 3/8 inch, and 1/2 inch, with ratchets, sockets, and attachments selected to the mechanic's needs. These are the most useful tools required to make your work easier.

The MB76 Metal Box with tote tray, 10 1/16 inches high x 22 3/4 inches wide x 10 1/16 inches deep, provides ample capacity for the addition of your favorite wrench sets found elsewhere in this catalogue.

These are all Grade "A" Bonney quality tools as listed in this catalogue under the various drives.

CONTENTS OF SET NO. MB100

1/4 Inch Drive Sockets and Attachments in Separate Box

No.	Description
V6	3/16" 12-Pt. Socket
V7	7/32"
V8	1/4"
V9	9/32"
V10	5/16"
V11	11/32"
V12	3/8"
V14	7/16"
V16	1/2"
VS8	1/4" 8-Pt. Socket
VS10	5/16"
V730	Sliding "T" Handle
V606	6" Extension
V602	2" Extension
V780	6" Spin Handle
V720	Hinge Handle
V701	Reversible Ratchet
MB12	Metal Box, 6" x 4" x 1"

3/8 Inch Drive Sockets and Attachments in Separate Box

No.	Description
TH12	3/8" 6-Pt. Socket
TH14	7/16"
TH16	1/2"
T18	9/16" 12-Pt. Socket
T20	5/8"
T22	11/16"
T24	3/4"
T775	Cross Bar
T720	Hinge Handle
T603	3" Extension
TT707	Reversible Ratchet
MB30	Metal Box, 8¼" x 3¾" x 1½"

1/2 Inch Drive Sockets and Attachments

No.	Description
A12	3/8" 12-Pt. Socket
A14	7/16"
A16	1/2"
A18	9/16"
A20	5/8"

1/2 Inch Drive Sockets and Attachments—Continued

No.	Description
A22	11/16"
A24	3/4"
A26	13/16"
A28	7/8"
A30	15/16"
A32	1"
A34	1 1/16"
A36	1 1/8"
A38	1 3/16"
A40	1 1/4"
A42	1 5/16"
A722	Hinge Handle
A775	Cross Bar
A730	Sliding "T" Handle
A602	2" Extension
A605	5" Extension
A610	10" Extension
A760	Universal Joint
A744	19" Speeder Handle
AA707	Reversible Ratchet



SET NO. MB102

MASTER TOOL SETS For Efficient Automotive Service

SET NO. MB102 CONTAINING 1/4", 3/8", 1/2", AND 3/4" DRIVE SOCKETS,
ATTACHMENTS, AND MISCELLANEOUS TOOLS
(170 Pieces — 130.000 lbs.)

A heavy-duty master tool set. This set includes all items described in the master set No. MB101 plus an assortment of 3/4 inch drive sockets, ratchet, and attachments for the mechanic desiring to own a complete set of tools for the repair work of truck and tractors as well as the general automotive.

The MB82 Metal Chest, 26 inches wide x 14 1/2 inches high x 12 1/8 inches deep with tote tray, 18 1/2 inches wide x 7 3/8 inches deep, provides ample capacity in its six drawers for all tools listed.

CONTENTS OF SET NO. MB102

1/4 Inch Drive Sockets and Attachments in Separate Box

No.	Description
V6	3/16" 12-Pt. Socket
V7	7/32"
V8	1/4"
V9	9/32"
V10	5/16"
V11	11/32"
V12	3/8"
V14	7/16"
V16	1/2"
VS8	1/4" 8-Pt. Socket
VS10	5/16"
V730	Sliding "T" Handle
V606	6" Extension
V602	2" Extension
V780	6" Spin Handle
V720	Hinge Handle

1/4 Inch Drive Sockets and Attachments in Separate Box

No.	Description
V701	Reversible Ratchet
MB12	Metal Box, 6" x 4" x 1"
3/8 Inch Drive Sockets and Attachments	
TH12	3/8" 6-Pt. Socket
TH14	7/16"
TH16	1/2"
T18	9/16" 12-Pt. Socket
T20	5/8"
T22	11/16"
T24	3/4"
T775	Cross Bar
T720	Hinge Handle
T603	3" Extension
TT707	Reversible Ratchet

1/2 Inch Drive Sockets and Attachments

No.	Description
A12	3/8" 12-Pt. Socket
A14	7/16"
A16	1/2"
A18	9/16"
A20	5/8"
A22	11/16"
A24	3/4"
A26	13/16"
A28	7/8"
A30	15/16"
A32	1"
A34	1 1/16"

MASTER TOOL SETS Continued

CONTENTS OF SET NO. MB102—Continued

1/2 Inch Drive Sockets and Attachments — Continued

No.	Description
A36	1 1/8" 12-Pt. Socket
A38	1 3/16"
A40	1 1/4"
A42	1 5/16"
A722	Hinge Handle
A775	Cross Bar
A730	Sliding "T" Handle
A602	2" Extension
A605	5" Extension
A610	10" Extension
A760	Universal Joint
A744	19" Speeder Handle
AA707	Reversible Ratchet

3/4 Inch Drive Sockets and Attachments

R32	1" 12-Pt. Socket
R34	1 1/16"
R36	1 1/8"
R40	1 1/4"
R42	1 5/16"
R46	1 7/16"
R48	1 1/2"
R52	1 5/8"
R54	1 11/16"
R58	1 13/16"
R730A	Sliding "T" Handle Assembly (Consists of R776 Handle and R731 Drive Head)
R609	9" Extension
R617	17" Extension
R701	Reversible Ratchet

Open End Wrenches

E810	1/4" & 5/16" O.E. Wrench
E1214	3/8" & 7/16"
E1618	1/2" & 9/16"
E2022	5/8" & 11/16"
E2426	3/4" & 13/16"
E2830	7/8" & 15/16"
LR56	Leatherette Roll
H10	3/16" & 7/32" Miniature O.E. Wrench
H12	1/4" & 9/32"
H14	5/16" & 11/32"
H16	3/8" & 7/16"
H18	13/32" & 15/32"
LR24	Leatherette Roll

Open End Wrenches—Continued

No.	Description
E422	1/2" & 9/16" Tappet Wrench
E424	5/8" & 11/16"
E426	3/4" & 7/8"
E14	13/64" & 15/64" O.E. Wrench, Electricians'
E16	15/64" & 13/64"
E18	7/32" & 1/4"
E20	1/4" & 7/32"
E22	9/32" & 5/16"
E24	5/16" & 9/32"
E26	11/32" & 3/8"
E28	3/8" & 11/32"
E30	7/16" & 1/2"
LR28	Leatherette Roll

Box Wrenches

2804L	3/8" & 7/16" Long Type 12-Pt. Dbl. Offset Box Wrench
2805L	1/2" & 9/16"
2807A	5/8" & 11/16"
2808F	3/4" & 13/16"
2809	7/8" & 15/16"
LR97	Leatherette Roll

Chisels and Punches

C2N	3/8" Flat Cold Chisel
C3	5/8"
C4	3/4"
C5	7/8"
C6	1"
C12	1/4" Cape Chisel
C13	3/8"
C15	1/4" Diamond Point Chisel
C16N	3/8"
C28	1/8" Pin Punch
C29	3/16"
C30	1/4"
C34	Center Punch
LR96	Leatherette Roll

Pliers

B17	Diagonal Cutting Pliers
B23	Lineman's Pliers
B29	Mechanic's Comb. Pliers
B35	Rib Joint Ignition Pliers
B38	Combination Pliers
B45	Rib Joint Pliers

Hammers

No.	Description
PH6	Ball Pein Hammer, 12 Oz.
PH17	Soft Face Hammer, 1 1/2 Oz.
PH20	Soft Face Hammer, 16 Oz.
PH30	Rubber Mallet, 28 Oz.

Screw Drivers

001-2	Electrical Screw Driver
0010	Electrical Screw Driver
006	Electrical Screw Driver
08	Standard Tip Screw Driver
SO1	Stubby Screw Driver
012	Standard Tip Screw Driver
E03	Spark Test Screw Driver
CP2	Phillips Screw Driver
0670	Offset Screw Driver

Pullers and Gauges

2591	Stud Puller
K52	Ignition Feeler Gauge
K57	Spark Plug Gauge
K8	Holding Pickup Tool
K53	Universal Master Feeler Gauge

Saws

2628	Hacksaw
F1218	Hacksaw Blades—Package of 10
SE1	3/16" - 1/4" Screw Extractor
SE2	1/4" - 5/16"
SE3	5/16" - 7/16"
SE4	7/16" - 9/16"
SE5	9/16" - 3/4"
SE6	3/4" - 1"
LR5	Leatherette Roll

Hex Keys

AW	.028" Hex Key
AW0	.035"
AW1	.050"
AW2	1/16"
AW2 1/2	5/64"
AW3	3/32"
AW3 1/2	7/64"
AW4	1/8"
AW4 1/2	9/64"
AW5	5/32"
AW6	3/16"
AW7	7/32"
AW8	1/4"
AW10	5/16"
AW12	3/8"
	Plastic Pouch

Spark Plug Socket

TLH26R	3/8" Drive Spark Plug Socket
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TOOL CABINETS AND CHESTS



MB76



MB82



CC15

These heavy-duty cabinets and chests are designed for the professional mechanic. Special reinforced construction for long, dependable service. Heavy gauge steel and easy glide drawer suspension with tumbler locks for security.

Acrylic red finish for easy cleaning of units and long lasting appearance.

MB76 (3 Drawer) CHEST

Designed as an individual bench chest or can be used as a top chest with the CC15 Roller Cabinet. Three full length drawers with convenient tote tray. Drawers have full length handles for convenience in opening. A special feature is full length piano hinge covers with reinforced front panel hinged to top cover for a burglar proof, quick acting, and streamlined unit. Panel folding over front locks drawers securely in position.

Width of cabinet less handles 22 3/4 inches. Depth of cabinet 10 1/8 inches. Height of cabinet 10 1/4 inches. Top drawer 20 1/4 inches wide x 8 7/8 inches deep x 1 1/2 inches high. Center drawer 20 1/4 inches wide x 8 7/8 inches deep x 1 7/8 inches high. Bottom drawer 20 1/4 inches wide x 8 7/8 inches deep x 2 1/2 inches high. Tote tray 18 1/2 inches wide x 7 3/8 inches deep with socket dividers. Weight: 36.500 lbs.

MB82 (6 Drawer) CHEST

Having all the features of the MB76, this six drawer unit is a master mechanic chest. The larger size provides extra storage in the top tray with ample capacity for the tote tray. The 3 3/16 inch high bottom drawer is the answer for those bulky tools such as hand drills, pullers, etc. Same heavy construction as outlined in the MB76 Chest.

Width of cabinet 26 inches. Height of cabinet 14 1/2 inches. Depth of cabinet 12 1/8 inches. Three drawers each measuring 7 1/8 inches wide x 10 9/16 inches deep x 1 3/4 inches high. Two drawers each measuring 23 3/4 inches wide x 10 9/16 inches deep x 1 3/4 inches high. Bottom drawer 23 3/4 inches wide x 10 9/16 inches deep x 3 3/16 inches high. Tote tray 18 1/2 inches wide x 7 3/8 inches deep with socket dividers. Shipping weight 65.000 lbs.

CC15 ROLLER CABINET

With all the special features found in the MB76 and MB82, this roller cabinet offers many extras. As a mobile unit it provides a base for either the MB76 or MB82 Chests and gives a top working surface. Large full swivel casters with rubber tires allows the unit to roll easily under full loads. Top locking feature eliminates stooping for access to lock. Side handle enables mechanic to pull unit with ease.

Height 31 3/4 inches. Width of cabinet less handles 26 3/8 inches. Depth of cabinet less handles 18 1/4 inches. Three drawers each measuring 21 1/4 inches wide x 17 1/2 inches deep x 4 inches high. Compartment 26 inches wide x 17 inches deep x 10 1/2 inches high. Shipping weight 100.000 lbs.

Note: For the various tool boxes shown with tool sets, see price list.

COMPARISON CHART

Diameter—Bolt, Nut or Screw

NOMINAL WRENCH SIZE	AMERICAN STANDARD								U.S. STANDARD		S.A.E. STANDARD
	NUTS				BOLTS				National Coarse Bolts and Nuts	Cap Screws	National Fine Bolts, Nuts and Screws
	Finished & Finished Thick Series	Regular Series	Heavy Series	Machine Screw Nuts, Stove Bolt Nuts	Regular Series Bolts, Finished Bolts, Hex Head Cap Screws	Heavy Series Bolts and Finished Bolts	Lag Bolts	Set Screws			
5/32	—	—	—	#0 & #1	—	—	—	—	—	—	—
3/16	—	—	—	#2 & #3	—	—	—	#10	—	—	—
1/4	—	—	—	#4	—	—	—	1/4	—	—	—
5/16	—	—	—	#5 & #6	—	—	#10	5/16	—	—	—
11/32	—	—	—	#8	—	—	—	—	—	—	—
3/8	—	—	—	#10	1/4 *	—	1/4	3/8	—	—	—
7/16	1/4	1/4	—	#12 & 1/4	1/4	—	—	7/16	—	1/4	1/4
1/2	5/16	—	1/4	—	5/16	—	5/16	1/2	1/4	5/16	5/16
9/16	3/8	5/16	5/16	5/16	3/8	—	3/8	9/16	—	3/8	3/8
19/32	—	—	—	—	—	—	—	—	5/16	—	—
5/8	—	3/8	—	3/8	7/16	—	7/16	5/8	—	7/16	7/16
11/16	7/16	—	3/8	—	—	—	—	—	3/8	—	—
3/4	1/2	7/16	7/16	—	1/2	—	1/2	3/4	—	1/2	1/2
25/32	—	—	—	—	—	—	—	—	7/16	—	—
13/16	—	1/2	—	—	9/16	—	—	—	—	9/16	—
7/8	9/16	9/16	1/2	—	—	1/2	—	7/8	1/2	5/8	9/16
15/16	5/8	—	9/16	—	5/8	—	5/8	—	—	—	5/8
31/32	—	—	—	—	—	—	—	—	9/16	—	—
1	—	5/8	—	—	—	—	—	1	—	3/4	—
1 1/16	—	—	5/8	—	—	5/8	—	—	5/8	—	3/4
1 1/8	3/4	3/4	—	—	3/4	—	3/4	1 1/8	—	7/8	—
1 1/4	—	—	3/4	—	—	3/4	—	1 1/4	3/4	1	7/8
1 5/16	7/8	7/8	—	—	7/8	—	7/8	—	—	—	—
1 3/8	—	—	—	—	—	—	—	1 3/8	—	1 1/8	—
1 7/16	—	—	7/8	—	—	7/8	—	—	7/8	—	1
1 1/2	1	1	—	—	1	—	1	1 1/2	—	1 1/4	—
1 5/8	—	—	1	—	—	1	—	—	1	—	1 1/8
1 11/16	1 1/8	1 1/8	—	—	1 1/8	—	1 1/8	—	—	—	—
1 13/16	—	—	1 1/8	—	—	1 1/8	—	—	1 1/8	—	1 1/4
1 7/8	1 1/4	1 1/4	—	—	1 1/4	—	1 1/4	—	—	—	—
2	—	—	1 1/4	—	—	1 1/4	—	—	1 1/4	—	1 3/8
2 1/16	1 3/8	1 3/8	—	—	1 3/8	—	—	—	—	—	—
2 3/16	—	—	1 3/8	—	—	1 3/8	—	—	1 3/8	—	1 1/2
2 1/4	1 1/2	1 1/2	—	—	1 1/2	—	—	—	—	—	—
2 3/8	—	—	1 1/2	—	—	1 1/2	—	—	1 1/2	—	—
2 7/16	1 5/8	1 5/8	—	—	1 5/8	—	—	—	—	—	—
2 9/16	—	—	1 5/8	—	—	1 5/8	—	—	1 5/8	—	—
2 5/8	1 3/4	—	—	—	1 3/4	—	—	—	—	—	—
2 3/4	—	—	1 3/4	—	—	1 3/4	—	—	1 3/4	—	—
2 13/16	1 7/8	—	—	—	1 7/8	—	—	—	—	—	—
2 15/16	—	—	1 7/8	—	—	1 7/8	—	—	1 7/8	—	—
3	2	—	—	—	2	—	—	—	—	—	—
3 1/8	—	—	2	—	—	2	—	—	2	—	—
3 3/8	2 1/4	—	—	—	2 1/4	—	—	—	—	—	—
3 1/2	—	—	2 1/4	—	—	2 1/4	—	—	2 1/4	—	—
3 3/4	2 1/2	—	—	—	2 1/2	—	—	—	—	—	—
3 7/8	—	—	2 1/2	—	—	2 1/2	—	—	2 1/2	—	—
4 1/8	2 3/4	—	—	—	2 3/4	—	—	—	—	—	—
4 1/4	—	—	2 3/4	—	—	2 3/4	—	—	2 3/4	—	—
4 1/2	3	—	—	—	3	—	—	—	—	—	—
4 5/8	—	—	3	—	—	3	—	—	3	—	—
4 7/8	—	—	—	—	—	—	—	—	3 1/4	—	—
5	—	—	3 1/4	—	3 1/4	—	—	—	3 1/2	—	—

*Regular square only.

